# **CentOS Artwork Repository**

Filesystem

Alain Reguera Delgado

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# 1 branches

# 2 tags

# 3 trunk

### 3.1 trunk/Identity

#### 3.1.1 Goals

The 'trunk/Identity' directory exists to organize CentOS corporate identity artworks.

#### 3.1.2 Description

The CentOS Project corporate identity is the "persona" of the organization known as The CentOS Project. The CentOS Project corporate identity plays a significant role in the way the CentOS Project, as organization, presents itself to both internal and external stakeholders. In general terms, the CentOS Project corporate visual identity expresses the values and ambitions of the CentOS Project organization, its business, and its characteristics.

The CentOS Project corporate identity provides visibility, recognizability, reputation, structure and identification to the CentOS Project organization by means of corporate design, corporate communication, and corporate behaviour.

The CentOS Project settles down its corporate visual identity on a "monolithic corporate visual identity structure". In this structure The CentOS Project uses one unique name (The CentOS Brand) and one unique visual style (The CentOS Default Theme) in all its manifestations.

#### The CentOS Brands

The CentOS brand is the name or trademark that connects the producer with their products. In this case, the producer is The CentOS Project and the products are the CentOS distributions, the CentOS web sites, the CentOS promotion stuff, etc.

See Section 3.2 [trunk Identity Brands], page 4, for more information.

#### The CentOS Themes

The CentOS themes are a set of image files connected all together by one unique visual style. Each theme is organized in different visual manifestations, in order to cover each visual manifestation of The CentOS Project (i.e., distributions, websites, promotion stuff, etc.). See Section 3.14 [trunk Identity Themes], page 12, for more information.

Inside a monolithic corporate visual identity structure, internal and external stakeholders use to feel a strong sensation of uniformity, orientation, and identification with the organization. No matter if you are visiting websites, using the distribution, or acting on social events, the one unique name and one unique visual style conect them all to say: Hey! we are all parts of the CentOS project. And, probably, some vister will say: Can I join the party? Yes you can, it is free. :)

#### 3.1.3 Usage

To produce identity artworks, use the following commands:

```
'centos-art render 'path/to/dir'
```

When 'path/to/dir' refers to one renderable directory under 'trunk/Identity', this command renders identity artworks using both related design models and related translation files.

```
'centos-art render 'path/to/dir' --filter='pattern''
```

When 'path/to/dir' refers to one renderable directory under 'trunk/Identity', this command renders identity artworks using both related design models and related

translation files that match the regular expression passed in '--filter='pattern'' argument.

To control the number of files produced by **centos-art** command, you need to look into the translation path and provide a regular expression pattern that matches the translation path, or paths, related to the file, or files, you want to produce.

The regular expression pattern you provide to centos-art command is applied to the translation path from its very beginning. It is not the same to say '5/en/01-welcome' that '01-welcome', the frist expression matches but the last one does not.

When using '--filter='pattern'' you don't need to specify the file extension. It is removed from translation path before applying the pattern, so it doesn't count here.

#### 3.1.4 File name convenctions

As file name convenction, inside CentOS Artwork Repository, both text-based and image-based file name produced by centos-art.sh script has the same name of their translation files without the '.sed' extension. The file extension is set as follow:

#### 3.1.4.1 When text-based files are rendered

Text-based files end up having the same extension of their design template file.

#### 3.1.4.2 When image-based files are rendered

Image-based files always end up having the '.png' extension.

Tip Once '.png' images are created, other image formats may be created using the renderFormats post-rendering action, inside the image-based related pre-rendering configuration script.

See Section 3.47 [trunk Scripts Bash], page 34, for more information.

#### 3.1.5 See also

#### 3.1.6 References

• http://en.wikipedia.org/Corporate\_identity (and related links).

### 3.2 trunk/Identity/Brands

- 3.2.1 Goals
  - ...
- 3.2.2 Description
- 3.2.3 Usage

3.2.4 See also

### 3.3 trunk/Identity/Fonts

#### 3.3.1 Goals

This section exists to organize digital typographies used by the CentOS project.

#### 3.3.2 Description

#### 3.3.3 Usage

The CentOS corporate identity is attached to 'DejaVu LGC' font-family. Whatever artwork you design for CentOS project, that requires typography usage, must be done using 'DejaVu LGC' font-family.

#### **Recommendation-1:**

For screen desings (e.g., anything that final destination will never be printed on paper or any medium outside computer screens) use 'DejaVu LGC Sans' font-family.

#### **Recommendation-2**:

For non-screen designs (e.g., anything that final desition will be printed on paper or any other medium outside computer screens) use 'DejaVu LGC Serif' font-family. As convenction files described in this rule are stored under 'Stationery' directories.

The only exception for the two recommendations above is the typography used inside CentOS logo. The CentOS logo is the main visual representation of the CentOS project so the typography used in it must be the same always, no matter where it be shown. It also has to be clear enough to dismiss any confusion between similar typefaces (e.g., the number one (1) sometimes is confuesed with the letter 'el' (l) or letter 'ai' (i)).

As CentOS logo typography convenction, the word 'CentOS' uses 'Denmark' typography as base, both for the word 'CentOS' and the phrase 'Community Enterprise Operating System'. The phrase size of CentOS logo is half the size in poits the word 'CentOS' has and it below 'CentOS' word and aligned with it on the left. The distance between 'CentOS' word and phrase 'Community Enterprise Operating System' have the size in points the phrase has.

When the CentOS release brand is built, use 'Denmark' typography for the release number. The release number size is two times larger (in height) than default 'CentOS' word. The separation between release number and 'CentOS' word is twice the size in points of separation between 'CentOS' word and phrase 'Community Enterprise Operating System'.

Another component inside CentOS logo is the trademark symbol (TM). This symbol specifies that the CentOS logo must be consider a product brand, even it is not a registered one. The trademark symbol uses DejaVu LGC Sans Regular typography. The trademark symbol is aligned right-top on the outter side of 'CentOS' word. The trademark symbol must not exceed haf the distance, in points, between 'CentOS' word and the release number on its right.

It would be very convenient for the CentOS Project and its community to to make a registered trademark () of CentOS logo. To make a register trademark of CentOS Logo prevents legal complications in the market place of brands. It grants the consistency, through time, of CentOS project corporate visual identity.

Note The information about trademarks and corporate identity is my personal interpretation of <a href="http://en.wikipedia.org/Corporate\_identity">http://en.wikipedia.org/Corporate\_identity</a> and <a href="http://en.wikipedia.org/Trademark">http://en.wikipedia.org/Trademark</a> description. If you have practical experiences with these affairs, please serve yourself to improve this section with your reasons.

#### 3.3.4 See also

### 3.4 trunk/Identity/Icons

#### 3.4.1 Goals

- ...
- 3.4.2 Description

3.4.3 Usage

3.4.4 See also

# 3.5 trunk/Identity/Isolinux

- 3.5.1 Goals
  - ...
- 3.5.2 Description
- 3.5.3 Usage
- 3.5.4 See also

# 3.6 trunk/Identity/Models

# 3.6.1 Goals

This section exists to organize design models.

### 3.6.2 Description

Design models are representative designs useful to understand how to build artworks.

### 3.6.3 Usage

# 3.6.4 See also

# 3.7 trunk/Identity/Models/Css

# 3.7.1 Goals

This directory exists to provide common style sheets (CSS) definitions to HTML design models.

# 3.7.2 Description

- ...
- 3.7.3 Usage
  - ...
- 3.7.4 See also

# 3.8 trunk/Identity/Models/Html

# 3.8.1 Goals

• ...

# 3.8.2 Description

- ...
- 3.8.3 Usage
  - ...

# 3.8.4 See also

# 3.9 trunk/Identity/Models/Img/Promo/Web

3.9.1 Goals

• Provide images related to CentOS web interface.

3.9.2 Description

• ...

3.9.3 Usage

• ...

3.9.4 See also

# 3.10 trunk/Identity/Models/Tpl

3.10.1 Goals

• ...

3.10.2 Description

• ...

3.10.3 Usage

• ...

3.10.4 See also

# 3.11 trunk/Identity/Models/Tpl/Promo/Web

# 3.11.1 Goals

Organize scalable vector graphics (svg) to help describe the CentOS web environment.

# 3.11.2 The CentOS web environment

Inside CentOS corporate identity, the CentOS web environment is considered a promotion component. The CentOS web environment is formed by a central web application —to cover base needs (e.g., per-major release information like release notes, lifetime, downloads, documentation, support, security advisories, bugs, etc.)— and many different free web applications —to cover specific needs (e.g., wiki, mailing lists, etc.)—.

The CentOS web environment is addressed to solve the following issues:

- One unique name and one unique visual style to all web applications used inside the web environment.
- One-step navigation to web applications inside the environment.
- High degree of customization to change the visual style of all web applications with few changes (e.g, updating just two or three images plus common style sheet [CSS] definitions).

The CentOS project is attached to a monolithic corporate visual identity (see Section 3.1 [trunk Identity], page 3), where all visual manifestations have one unique name and one unique visual style. This way, the CentOS web environment has one unique name (the CentOS brand)

and one unique visual style (the CentOS default theme) for all its visual manifestations, the web applications in this case.

Since a maintainance point of view, achiving the one unique visual style inside CentOS web environment is not a simple task. The CentOS web environment is built upon many different web applications which have different visual styles and different internal ways to customize their own visual styles. For example: MoinMoin, the web application used to support the CentOS wiki (http://wiki.centos.org/) is highly customizable but Mailman (in its 2.x.x serie), the web application used to support the CentOS mailing list, doesn't support<sup>1</sup> a customization system that separates presentation from logic, similar to that used by MoinMoin.

This visual style diversity complicates our goal of one unique visual style for all web applications. So, if we want one unique visual style for all web applications used, it is innevitable to modify the web applications in order to implement the CentOS one unique visual style customization in them. Direct modification of upstream applications is not convenient because upstream applications come with their one visual style and administrators take the risk of loosing all customization changes the next time the application be updated (since not all upstream web applications, used in CentOS web environment, separate presentation from logic).

To solve the "one unique visual style" issue, installation and actualization of web applications —used inside CentOS web environment— need to be independent from upstream web applications development line; in a way that CentOS web environment administrators can install and update web applications freely without risk of loosing the one unique visual style customization changes.

At the surface of this issue we can see the need of one specific yum repository to store CentOS web environment customized web applications.

#### 3.11.2.1 Design model (without ads)

### 3.11.2.2 Design model (with ads)

#### 3.11.2.3 HTML definitions

#### 3.11.2.4 Controlling visual style

Inside CentOS web environment, the visual style is controlled by the following compenents:

#### Webenv header background

trunk/Identity/Themes/Motifs/\$THEME/Backgrounds/Img/1024x250.png

#### **CSS** definitions

trunk/Identity/Themes/Models/Default/Promo/Web/CSS/stylesheet.css

### 3.11.2.5 Producing visual style

The visual style of CentOS web environment is defined in the following files:

trunk/Identity/Themes/Motifs/\$THEME/Backgrounds/Xcf/1024x250.xcf trunk/Identity/Themes/Motifs/\$THEME/Backgrounds/Img/1024x250.png trunk/Identity/Themes/Motifs/\$THEME/Backgrounds/Img/1024x250-bg.png trunk/Identity/Themes/Motifs/\$THEME/Backgrounds/Tpl/1024x250.svg

As graphic designer you use '1024x250.xcf' file to produce '1024x250-bg.png' file. Later, inside '1024x250.svg' file, you use the '1024x250-bg.png' file as background layer to draw your vectorial design. When you consider you artwork ready, use the centos-art.sh script, as described below, to produce the visual style controller images of CentOS web environment.

<sup>&</sup>lt;sup>1</sup> The theme support of Mailman may be introduced in mailman-3.x.x release.

#### centos-art render --entry=trunk/Identity/Themes/Motifs/\$THEME/Backgrounds --filter='1024x

Once you have rendered required image files, changing the visual style of CentOS web environment is a matter of replacing old image files with new ones, inside webenv repository file system structure. The visual style changes will take effect the next time customization line of CentOS web applications be packaged, uploded, and installed from [webenv] or [webenv-test] repositories.

### 3.11.2.6 Navigation

Inside CentOS web environment, the one-step navegation between web applications is addressed using the web environment navigation bar. The web environment navigation bar contains links to main applications and is always visible no matter where you are inside the web environment.

### 3.11.2.7 Development and release cycle

The CentOS web environment development and relase cycle is described below:

#### Download

The first action is download the source code of web applications we want to use inside CentOS web environment.

**Important** The source location from which web application are downloaded is very important. Use SRPMs from CentOS [base] and [updates] repositories as first choise, and third party repositories (e.g. RPMForge, EPEL, etc.) as last resource.

#### Prepare

Once web application source code has been downloaded, our duty is organize its files inside 'webenv' version controlled repository.

When preparing the structure keep in mind that different web applications have different visual styles, and also different ways to implement it. A convenient way to organize the file system structure would be create one development line for each web application we use inside CentOS web environment. For example, consider the following file system structure:

```
https://projects.centos.org/svn/webenv/trunk/
|-- WebApp1/
| |-- Sources/
| | '-- webapp1-0.0.1/
| |-- Rpms/
| | '-- webapp1-0.0.1.rpm
| |-- Srpms/
| | '-- webapp1-0.0.1.srpm
| '-- Specs/
| '-- webapp1-0.0.1.spec
|-- WebApp2/
'-- WebAppN/
```

#### Customize

Once web applications have been organized inside the version controlled repository file system, use subversion to create the CentOS customization development line of web applications source code. For example, using the above file system structure, you can create the customization development line of 'webapp1-0.0.1/' with the following command:

svn cp trunk/WebApp1/Sources/webapp1-0.0.1 trunk/WebApp1/Sources/webapp1-0.0.1-The command above creates the following structure:

```
https://projects.centos.org/svn/webenv/trunk/
|-- WebApp1/
    |-- Sources/
|-- webapp1-0.0.1/
L
       '-- webapp1-0.0.1-webenv/
    |-- Rpms/
'-- webapp1-0.0.1.rpm
|-- Srpms/
'-- webapp1-0.0.1.srpm
'-- Specs/
'-- webapp1-0.0.1.spec
|-- WebApp2/
'-- WebAppN/
```

In the above structure, the 'webapp1-0.0.1-webenv/' directory is the place where you customize the visual style of 'webapp1-0.0.1/' web application.

Tip Use the diff command of Subversion between CentOS customization and upstream development lines to know what you are changing exactly.

#### **Build packages**

When web application has been customized, build the web application RPM and SRPM using the source location with '-webenv' prefix.

```
https://projects.centos.org/svn/webenv/trunk/
```

```
|-- WebApp1/
   |-- Sources/
|-- webapp1-0.0.1/
'-- webapp1-0.0.1-webenv/
   |-- Rpms/
|-- webapp1-0.0.1.rpm
   '-- webapp1-0.0.1-webenv.rpm
   |-- Srpms/
       |-- webapp1-0.0.1.srpm
'-- webapp1-0.0.1-webenv.srpm
'-- Specs/
Т
       |-- webapp1-0.0.1.spec
'-- webapp1-0.0.1-webenv.spec
|-- WebApp2/
'-- WebAppN/
```

#### **Release for testing**

When the customized web application has been packaged, make packages available for testing and quality assurance. This can be achives using a [webenv-test] yum repository.

**Note** The [webenv-test] repository is not shipped inside CentOS distribution default yum configuration. In order to use [webenv-test] repository you need to configure it first.

If some problem is found to install/update/use the customized version of web application, the problem is notified somewhere (a bugtracker maybe) and the customization face is repated in order to fix the problem. To release the new package add a number after '-webenv' prefix. For example, if some problem is found in 'webapp1-0.0.1-webenv.rpm', when it be fixed the new package will be named 'webapp1-0.0.1-webenv-1.rpm'. If a problem is found in

'webapp1-0.0.1-webenv-1.rpm', when it be fixed the new package will be named 'webapp1-0.0.1-webenv-2.rpm', and so on.

The "customization — release for testing" process is repeated until CentOS quality assurance team considers the package is ready for production.

### **Release for production**

When customized web application packages are considered ready for production they are moved from [webenv-test] to [webenv] repository. This action is commited by CentOS quality assurance team.

**Note** The [webenv] repository is not shipped inside CentOS distribution default yum configuration. In order to use [webenv] repository you need to configure it first.

# 3.11.2.8 The [webenv-test] repository

```
/etc/yum.repos.d/CentOS-Webenv-test.repo
```

```
[webenv-test]
name=CentOS-$releasever - Webenv-test
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=webenv-t
#baseurl=http://mirror.centos.org/centos/$releasever/webenv-test/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-$releasever
enabled=1
priority=10
```

# 3.11.2.9 The [webenv] repository

```
/etc/yum.repos.d/CentOS-Webenv.repo
[webenv]
name=CentOS-$releasever - Webenv
mirrorlist=http://mirrorlist.centos.org/?release=$releasever&arch=$basearch&repo=webenv
#baseurl=http://mirror.centos.org/centos/$releasever/webenv/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-$releasever
enabled=1
priority=10
```

# 3.11.2.10 Priority configuration

Both [webenv] and [webenv-test] repositories update packages inside CentOS [base] and CentOS [updates] repositories.

# 3.11.3 Usage

• ...

3.11.4 See also

# 3.12 trunk/Identity/Models/Xcf

3.12.1 Goals

• ...

3.12.2 Description

• ...

3.12.3 Usage

• ...

3.12.4 See also

3.13 trunk/Identity/Release

3.13.1 Goals

• ...

3.13.2 Description

3.13.3 Usage

3.13.4 See also

# 3.14 trunk/Identity/Themes

# 3.14.1 Goals

The 'trunk/Identity/Themes/' directory exists to organize production of CentOS themes.

# 3.14.2 Description

# 3.14.3 Usage

In this location themes are organized in "Models" —to store common information— and "Motifs"—to store unique information. At rendering time, both motifs and models are combined to produce the final CentOS themes. CentOS themes can be tagged as "Default" or "Alternative". CentOS themes are maintained by CentOS community.

# 3.14.4 See also

# 3.15 trunk/Identity/Themes/Models

# 3.15.1 Goals

• Organize theme models.

# 3.15.2 Description

Theme models let you modeling characteristics (e.g., dimensions, translation markers, position of each element on the display area, etc.) common to all themes. Theme models let you reduce the time needed when propagating artistic motifs to different visual manifestations.

Theme models serves as a central pool of design templates for themes to use. This way you can produce themes with different artistic motifs but same characteristics.

# 3.15.3 Usage

Inside the framework location above, you find theme models organized by name. You can add your own theme models to the structure by adding a directory to the list. By default you have the 'See Section 3.17 [trunk Identity Themes Models Default], page 13,' and 'See Section 3.16 [trunk Identity Themes Models Alternative], page 13,' ready-to-use theme models.

# 3.15.4 See also

# 3.16 trunk/Identity/Themes/Models/Alternative

### 3.16.1 Goals

• ...

# 3.16.2 Description

CentOS alternative theme models exist for people how want to use a different visual style on their installations of CentOS distribution. As the visual style is needed for a system already installed components like Anaconda are not required inside alternative themes. Inside alternative themes you find post-installation visual style only (i.e. Backgrounds, Display Managers, Grub, etc.). CentOS alternative themes are maintained by CentOS Community.

# 3.16.3 Usage

• ...

3.16.4 See also

# 3.17 trunk/Identity/Themes/Models/Default

# 3.17.1 Goals

This location stores CentOS default theme model. The default theme model of CentOS is used in all visual manifestations of CentOS Project corporate visual identity (e.g., distributions, web sites, promotion, etc.).

# 3.17.2 Description

### 3.17.3 Usage

Changing CentOS default theme is not very convenient because that affects the "recognition" of CentOS Project. Nevertheless, we are interested on seeing your art work propositions. Specially if your art work is an improvement to the base idea behind CentOS default theme (**Modern**, squares and circles flowing up.).

If you are not happy with CentOS default theme, you can look inside CentOS alternative themes and download the one you are interested in. If you are not happy with any of the CentOS alternative themes available, then go and design your own CentOS alternative theme as described in See Section 3.22 [trunk Identity Themes Motifs], page 15.

### 3.17.4 See also

# 3.18 trunk/Identity/Themes/Models/Default/Distro

### 3.18.1 Goals

• ...

# 3.18.2 Description

It applies to all major releases of CentOS distribution.

### 3.18.2.1 One theme for all major releases

Sometimes, specific visual manifestations are formed by common components which have internal differences. That is the case of CentOS distribution visual manifestation.

Since a visual style point of view, the CentOS distributions share common artwork components like Anaconda —to cover the CentOS distribution installation—, BootUp —to cover the CentOS distribution start up—, and Backgrounds —to cover the CentOS distribution desktop— . Now, since a technical point of view, those common artwork components are made of software improved constantly. So, we need to find a way to keep one unique name and one unique visual style in artwork components that have internal difference and also remark internal difference as well.

**Important** Remarking the CentOS release schema inside each major release of CentOS distribution —or similar visual manifestation— takes *high attention* inside The CentOS Project corporate visual identity. It should be very clear for people which major release of CentOS distribution they are using.

In order to remark the CentOS release schema, the CentOS Artwork SIG uses a releasespecific brand design named "The CentOS Release Brand". The CentOS release brand is compossed by the CentOS logotype *and* the CentOS major release number (as specified in CentOS release schema definition). In this solution, the CentOS release brand is set inside all releasespecific artworks (e.g., distribution, installation media, etc.) in remarkable way. The CentOS release brand is the design component that lets us remark the CentOS release schema inside the monolithic corporate visual identity structure we propose to use.

#### 3.18.2.2 One theme for each major release

Other way we've been using to remark CentOS release schema is applying one unique theme for *each* major release of CentOS distribution. That is, if we have 4 major releases of CentOS distribution, we need to provide 4 different themes to cover each CentOS distribution available.

Inside CentOS Artwork Repository, you can create many themes and that is very convenient. But using one unique theme for *each* major release of CentOS distribution would bring visual isolation among distributions, websites and promotion visual manifestations. If the CentOS project would maintain just one CentOS distribution (and many experienced graphic designers ready to create beautiful artworks) this model would be nice. Indeed, this model looks quite similar to that one used by Fedora project, doesn't it. But no, the CentOS project maintains near to 4 major releases of CentOS distribution in parallel, and that fact makes a huge difference since the corporate visual identity point of view.

If we use one unique theme for *each* major release of CentOS distribution, which one of those themes, does we use to cover other CentOS visual manifestations, like websites and promotion stuff?

In whatever case you choose some release-specific distribution user will be visually isolated from other CentOS visual manifestations like websites and promotion stuff, even if the CentOS brand is present in all visual manifestations. In such a case, probably, users will end up asking themselves, why my CentOS distribution has this design and the CentOS website another one? Isn't them on the same project? With luck the CentOS brand will exonerate user form visual isolation.

### 3.18.3 Usage

3.18.4 See also

# 3.19 trunk/Identity/Themes/Models/Default/Distro/Anaconda

#### 3.19.1 Goals

- ...
- 3.19.2 Description

# 3.19.3 Usage

# 3.19.4 See also

# 3.20 trunk/Identity/Themes/Models/Default/Promo

# 3.20.1 Goals

• ...

# 3.20.2 Description

It applies to all tangible and non tangible items CentOS uses to promote its existence. Clothes, posters, installation media, stationery, release countdown images, banners, stickers, are all examples of promotion designs.

• ...

3.20.3 Usage

• ...

3.20.4 See also

# 3.21 trunk/Identity/Themes/Models/Default/Web

3.21.1 Goals

• ...

# 3.21.2 Description

It applies to all web applications CentOS uses to handle its needs (Ex. Portals, Wikis, Forums, Blogs, Bug Tracker). Anything involving HTML standards should be consider here.

• ...

3.21.3 Usage

• ...

3.21.4 See also

# 3.22 trunk/Identity/Themes/Motifs

# 3.22.1 Goals

The 'trunk/Identity/Themes/Motifs' directory exists to:

• Organize CentOS themes' artistic motifs.

# 3.22.2 Description

The artistic motif of theme is a graphic design component that provides the visual style of themes, it is used as pattern to connect all visual manifestations inside one unique theme.

Artistic motifs are based on conceptual ideas. Conceptual ideas bring the motivation, they are fuel for the engines of human imagination. Good conceptual ideas may produce good motivation to produce almost anything, and art works don't escape from it.

#### 'TreeFlower'

CentOS like trees, has roots, trunk, branches, leaves and flowers. Day by day they work together in freedom, ruled by the laws of nature and open standards, to show the beauty of its existence.

'Modern' Modern, squares and circles flowing up.

If you have new conceptual ideas for CentOS, then you can say that you want to create a new artistic motif for CentOS. To create a new artistic motif you need to create a directory under 'Identity/Themes/Motifs/' using a name coherent with your conceptual idea. That name will be the name of your artistic motif. If possible, when creating new conceptual ideas for CentOS, think about what CentOS means for you, what does it makes you feel, take your time, think deep, and share; you can improve the idea as time goes on.

Once you have defined a name for your theme, you need to create the motif structure of your theme. The motif structure is the basic directry structure you'll use to work your ideas. Here is where you organize your graphic design projects.

To add a new motif structure to CentOS Artwork Repository, you need to use the centos-art command line in the 'Identity/Themes/Motifs/' directory as described below:

```
centos-art add --motif=ThemeName
```

The previous command will create the basic structure of themes for you. The basic structure produced by centos-art command is illustrated in the following figure:

```
trunk/Identity/Themes/Motifs/$ThemeName/
```

```
|-- Backgrounds
| |-- Img
| '-- Tpl
|-- Info
| |-- Img
| '-- Tpl
|-- Palettes
'-- Screenshots
```

### 3.22.3 Usage

When designing artistic motifs for CentOS, consider the following recommendations:

- Give a unique (case-sensitive) name to your Motif. This name is used as value wherever theme variable (**\$THEME**) or translation marker (**=THEME=**) is. Optionally, you can add a description about inspiration and concepts behind your work.
- Use the location 'trunk/Identity/Themes/Motifs/\$THEME/' to store your work. If it doesn't exist create it. Note that this require you to have previous commit access in CentOS Artwork Repository.
- The CentOS Project is using the blue color (**#204c8d**) as base color for its corporate visual identity. Use such base corporate color information as much as possible in your artistic motif designs.
- Try to make your design fit one of the theme models.
- Feel free to make your art enterprise-level and beautiful.
- Add the following information on your artwork (both in a visible design area and document metadata):
  - The name (or logo) of your artistic motif.
  - The copyright sentence: Copyright (C) YEAR YOURNAME
  - under which the The license work is released. All CentOS Art Creative released under Common Share-Alike works are License 3.0(http://creativecommons.org/licenses/by-sa/3.0/).

#### 3.22.4 See also

### 3.23 trunk/Identity/Themes/Motifs/Flame

#### 3.23.1 Goals

This section describes the steps we followed to construct the *Flame* artistic motif. This section may be useful for anyone interested in reproducing the *Flame* artistic motif, or in creating new artistic motifs for The CentOS Project corporate visual identity (see Section 3.1 [trunk Identity], page 3).

#### 3.23.2 Description

The Flame artistic motif was built using the flame filter of Gimp 2.2 in CentOS 5.5.

The flame filter of Gimp can produce stunning, randomly generated fractal patterns. The flame filter of Gimp gives us a great oportunity to reduce the time used to produce new artistic motifs, because of its "randomly generated" nature. Once the artistic motif be created, it is propagated through all visual manifestations of CentOS Project corporate visual identity using the 'centos-art.sh' script (see Section 3.47 [trunk Scripts Bash], page 34) inside the CentOS Artwork Repository.

To set the time intervals between each new visual style production, we could reuse the CentOS distribution major release schema. I.e., we could produce a new visual style, every two years, based on a new "randomly generated" flame pattern, and publish the whole corporate visual identity (i.e., distribution stuff, promotion stuff, websites stuff, etc.) with the new major release of CentOS distribution all together at once.

Producing a new visual style is not one day's task. Once we have defined the artistic motif, we need to propagate it through all visual manifestations of The CentOS Project corporate visual identity. When we say that we could produce one new visual style every two years we really mean: to work two years long in order to propagate a new visual style to all visual manifestations of The CentOS Project corporate visual identity.

Obviously, in order to propagate one visual style to all different visual manifestations of The CentOS Project corporate visual identity, we need first to know which the visual manifestations are. To define which visual manifestations are inside The CentOS Project corporate visual identity is one of the goals the CentOS Artwork Repository and this documentation manual are both aimed to satisfy.

Once we define which the visual manifestation are, it is possible to define how to produce them, and this way, organize the automation process. Such automation process is one of the goals of 'centos-art.sh' script.

With the combination of both CentOS Artwork Repository and 'centos-art.sh' scripts we define work lines where translators, programmers, and graphic designers work together to distribute and reduce the amount of time employed to produce The CentOS Project monolithic corporate identity.

From a monolithic corporate visual identity point of view, notice that we are producing a new visual style for the same theme (i.e., *Flame*). It would be another flame design but still a flame design. This idea is very important to be aware of, because we are somehow "refreshing" the theme, not changing it at all.

This way, as we are "refreshing" the theme, we still keep oursleves inside the monolithic conception we are trying to be attached to (i.e., one unique name, and one unique visual style for all visual manifestations).

Producing artistic motifs is a creative process that may consume long time, specially for people without experienced knowledge on graphic design land. Using "randomly generated" conception to produce artistic motifs could be, practically, a way for anyone to follow in order to produce maintainable artistic motifs in few steps.

Due to the "randomly generated" nature of Flame filter, we find that *Flame* pattern is not always the same when we use *Flame* filter interface.

Using the same pattern design for each visual manifestation is essential in order to maintain the visual connection among all visual manifestations inside the same theme. Occasionally, we may introduce pattern variations in opacity, size, or even position but never change the pattern design itself, nor the color information used by images considered part of the same theme.

**Important** When we design background images, which are considered part of the same theme, it is essential to use the same design pattern always. This is what makes theme images to be visually connected among themeselves, and so, the reason we use to define the word "theme" as: a set of images visually connected among themeselves.

In order for us to reproduce the same flame pattern always, *Flame* filter interface provides the 'Save' and 'Open' options. The 'Save' option brings up a file save dialog that allows you to save the current Flame settings for the plug-in, so that you can recreate them later. The 'Open' option brings up a file selector that allows you to open a previously saved Flame settings file.

The Flame settings we used in our example are saved in the file:

trunk/Identity/Themes/Motifs/Flame/Backgrounds/Xcf/800x600.xcf-flame.def

#### 3.23.3 Construction

#### 3.23.3.1 Step 1: Set image size

Create an empty image and fill the 'Background' layer with black (000000) color. Image dimensions depend on the final destination you plan to use the image for. For the sake of our construction example we used an image of 640x480 pixels and 300 pixels per inch (ppi).

#### 3.23.3.2 Step 2: Add base color and pattern information

Create a new layer named 'Base', place it over 'Background' layer and fill it with the base color (7800ff) you want to have your background image set in. Add a mask to 'Base' layer using radial gradient and blur it. You may need to repeat this step more than once in order to achieve a confortable black radial degradation on the right side of your design.

Duplicate 'Base' layer and name it 'Paper'. Place 'Paper' layer over 'Base' layer. Remove content of 'Paper' layer and fill it with 'Paper (100x100)' pattern. Once you've done with black radial degradation, reduce the 'Paper' layer opacity to 20%.

Notice that when we duplicate one layer, the mask information related to layer is preserved from previous to next layer. This saves us some of the time required to produce different layers with the same mask information on them.

Duplicate 'Paper' layer and rename it 'Stripes'. Remove paper pattern from 'Stripes' layer. Fill 'Stripes' layer with 'Stripes (48x48)' pattern and reduce the 'Stripes' layer opacity to 15%.

### 3.23.3.3 Step 3: Add flame motif

Create a new layer named 'Flame'. Set the foreground (003cff) and background (0084ff) colors to the gradient you want to build the flame motif.

To build flame motif, use the flame filter ('Filters > Render > Nature > Flame...') on 'Flame' layer. We used a layer mask, with a radial gradient on it to control the boundaries of flame motif on 'Flame' layer.

Duplicate 'Flame' layer and rename it 'Flame Blur'. Place 'Flame Blur' below 'Flame' layer. Apply Gussian blur filter ('Filters > Blur > Gussian Blur...') until reaching the desired effect.

The opacity value, in 'Flame' layers, may vary from one image to another based on the place the image will be finally placed on. For example, images used as desktop background have the 'Flame' layer opacity set at 100% but 'Flame Blur' is set to 70%. However, you may find that background images used in anaconda progress slides have opacity reduced differently, in order to reduce brightness in a way that texts could look clean and readable over it.

#### 3.23.3.4 Step 4: Add foreground color

Create a new layer named 'Color', place it on top of all visible layers and fill it with plain color (4c005a). Reduce 'Color' layer opacity to 20%. You can use the 'Color' layer to control the right side color information you want to produce the image for.

Duplicate 'Flame' layer and create a new layer named 'Color#1'. Place 'Color#1' layer on top of layer named 'Color'. Remove the mask information from 'Color#1' layer and recreate a new one using an inverted alpha channel as reference. Remove 'Color#1' layer content and fill it back with plain black (000000) color. Reduce 'Color#1' opacity to 20%. In this step we created a mask to protect the flame artistic motif from black color, so when we decrement or increment the opacity of layer, the flame artistic motif wouldn't be affected, just the environment suround it.

When you set color information, remember that the same artistic motif needs to be indexed to 14 and 16 colors, in order to produce Grub and Syslinux visual manifestations respectively. Using many different colors in the artistic motif may reduce the possibility of your design to fix all different situations in. Likewise, using more colors in one design, and less colors in another design will reduce the connectivity among your designs, since color information is relevant to visual identity.

When you propagate your artistic motif visual style to different visual manifestations of CentOS Project corporate visual identity, it is up to you to find out justice and compromise among all possible variables you may face.

#### 3.23.4 See also

# 3.24 trunk/Identity/Themes/Motifs/Modern

- 3.24.1 Presentation
- 3.24.2 Construction
- 3.24.3 Usage
  - ...

3.24.4 See also

# 3.25 trunk/Identity/Themes/Motifs/Modern/Backgrounds

#### 3.25.1 Goals

• Organize background images for Modern theme.

#### 3.25.2 Description

Inside 'Motifs' directory, the 'Backgrounds/' directory is used to create vectorial designs using Inkscape and background images using Gimp. Later, you can export background images as '.png' and load them in your vectorial design project using the import feature of Inkscape.

You may need to repeat this technic for different screen resolutions. In that case you need to create one file for each screen resolution and do the appropriate linking inside .svg to .png files. For example if you need to produce background images in 800x600 you need to create the following file:

xcf/800x600.xcf

to produce the background image:

img/800x600-bg.png

which is loaded in:

svg/800x600.svg

to produce the final background image:

img/800x600.png

The 'img/800x600.png' background image is produced automatically by means of rendering scripts.

In other cases (e.g. Anaconda), it is possible that you need to make some variations to one background image that don't want to appear on regular background images of the same resolution. In this case you need to create a new and specific background image for that art component. For example, if you need to produce the background image used by Anconda (800x600) art works you create the file:

xcf/800x600-anaconda.xcf

to produce the background image:

img/800x600-anaconda-bg.png

which is loaded in:

svg/800x600-anaconda.svg

to produce the file:

img/800x600-anaconda.png

The 800x600-anaconda.png file is used by all Anaconda art works sharing a common 800x600 screen resolution (e.g., Header, Progress, Splash, Firstboot, etc.). The Anaconda Prompt is indexed to 16 colors and 640x480 pixels so you need to create a 640x480 background image for it, and take the color limitation into account when designing it.

Background images without artistic motif are generally used as based to build the Background images that do contain the theme artistic motif.

Background images are linked (using the **import** feature of Inkscape) inside almost all theme art works. This structure let you make centralized changes on the visual identity and propagate them quickly to other areas.

In this structure you design background images for different screen resolutions based on the theme artistic motif.

You may create different artistic motifs propositions based on the same conceptual idea. The conceptual idea is what defines a theme. Artistic motifs are interpretations of that idea.

Inside this directory artistic motifs are organized by name (e.g., TreeFlower, Modern, etc.).

Each artistic motif directory represents just one unique artistic motif.

The artistic motif is graphic design used as common pattern to connect all visual manifestations inside one unique theme. The artistic motif is based on a conceptual idea. Artistic motifs provide visual style to themes. Designing artistic motifs is for anyone interested in creating beautiful themes for CentOS. When building a theme for CentOS, the first design you need to define is the artistic motif.

Inside CentOS Artwork Repository, theme visual styles (Motifs) and theme visual structures (Models) are two different working lines. When you design an artistic motif for CentOS you concentrate on its visual style, and eventualy, use the centos-art command line interface to render the visual style, you are currently producing, against an already-made theme model in order to produce the final result. Final images are stored under 'Motifs/' directory using the model name, and the model directory structure as reference.

The artistic motif base structure is used by centos-art to produce images automatically. This section describes each directory of CentOS artistic motif base structure.

# 3.25.3 Usage

The 'Backgrounds/' directory is probably the core component, inside 'Motifs/' directory structure. Inside 'Backgrounds/' directory you produce background images used by almost all theme models (e.g., Distribution, Websites, Promotion, etc.). The 'Backgrounds/' directory can contain subdirectories to help you organize the design process.

### 3.25.4 See also

# 3.26 trunk/Identity/Themes/Motifs/Modern/Backgrounds/Img

### **3.26.1** Goals

• ...

# 3.26.2 Description

# 3.26.3 Usage

In this directory is where you store all background images (e.g., .png, .jpg, .xpm, etc.). This directory is required by 'centos-art' command line interface.

# 3.26.4 See also

# 3.27 trunk/Identity/Themes/Motifs/Modern/Backgrounds/Tpl

### 3.27.1 Goals

• ...

# 3.27.2 Description

# 3.27.3 Usage

In this directory is where you store all the scalable vector graphics (e.g., .svg) files. This directory is required by 'centos-art' command line interface.

# 3.27.4 See also

# 3.28 trunk/Identity/Themes/Motifs/Modern/Backgrounds/Xcf

# 3.28.1 Goals

• ...

# 3.28.2 Description

• ...

# 3.28.3 Usage

In this directory is where you store the project files (e.g., .xcf) of Gimp. This directory is not required by 'centos-art' command line interface. If you can create a beautiful background images using scalable vector graphics only, then there is no need to use the 'Xcf/' directory to store background projects. Of course, you can merge both Gimp and Inkscape power to produce images based on them. In this last case you need the 'Xcf/' directory.

3.28.4 See also

# $3.29\ trunk/Identity/Themes/Motifs/Modern/Distro/Anaconda/Progress$

3.29.1 Goals

• ...

3.29.2 Description

# 3.29.3 Usage

To render Anaconda progress slide images using the *Modern* artistic motif design, the Default theme model, and available translation files (— **Removed**(pxref:trunk Translations Identity Themes Distro Anaconda Progress) —); use the following commands:

```
cd /home/centos/artwork/trunk/Identity/Themes/Motifs/Modern/Distro/Anaconda/Progress/
centos-art render --identity
```

The above command will create the following structure:

```
trunk/Identity/Themes/Motifs/Modern/Distro/Anaconda/Progress
|-- 3
L
   |-- en
|-- 01-welcome.png
       |-- 02-donate.png
L
   '-- 03-yum.png
'-- es
L
T
       |-- 01-welcome.png
       |-- 02-donate.png
'-- 03-yum.png
|-- 4
   |-- en
|-- 01-welcome.png
T
   |-- 02-donate.png
       '-- 03-yum.png
   '-- es
|-- 01-welcome.png
|-- 02-donate.png
       '-- 03-yum.png
'-- 5
   |-- en
   |-- 01-welcome.png
   |-- 02-donate.png
   '-- 03-yum.png
```

'-- es |-- 01-welcome.png |-- 02-donate.png '-- 03-yum.png

# 3.29.4 See also

# 3.30 trunk/Identity/Themes/Motifs/Modern/Palettes

# 3.30.1 Goals

• Organize palette files for Modern theme.

# 3.30.2 Description

# 3.30.3 Usage

Here is where graphic designers define theme palettes for color-limited art works. Theme palettes contain the color information that rendering functions need, in order to produce images with color limitations. Theme palettes contain the unique color information required by theme.

3.30.4 See also

# 3.31 trunk/Identity/Themes/Motifs/TreeFlower

- 3.31.1 Goals
- ...
- 3.31.2 Description
- 3.31.3 Usage
- 3.31.4 See also

# 3.32 trunk/Identity/Themes/Motifs/TreeFlower/Backgrounds

# 3.32.1 Goals

This section exists to orgnize backgrounds of *TreeFlower* artistic motif.

# 3.32.2 Description

# 3.32.2.1 Desktop background

Once you have defined the vectorial artistic motif design, use the centos-art.sh script (as described in usage section below) to produce the png version of it. With the png version of your vectorial design do the following:

Open the png version with GIMP.

Save the png version as a project of GIMP inside 'trunk/Identity/Themes/Motifs/TreeFlower/Background directory, using the same name of your vectorial design but with the '.xcf' extension.

Now use GIMP to improve your design. Here you may add one layer for pattern, another for colors, and so on until you find yourself confortable with your artwork. For example, the following layer distribution (from bottom to top) was used to build revision 285 of file '1360x768.xcf' using *TreeFlower* artistic motif at revision 241.

#### Layer 1: Background

The first thing we did with GIMP was to create a layer named 'Background' to store the artistic motif (File > Open as layer). This layer is the lowest layer in the image. Later, we started to create layers one upon another to change the artistic motif visual style.

#### Layer 2: Shadow#1

This layer is above 'Background' and contains a linear gradient from left (000000) to right (transparent) covering the whole image. This layer masks the artistic motif to avoid the effect of linear gradient. This layer is 100% of opacity.

#### Layer 3: Shadow#2

This layer is above 'Shadow#1' and contains a linear gradient from left (000000) to right (transparent) covering just the 70% of the whole image aproximatly. This layer doesn't mask the artistic motif which make the left part of it fall into the dark of linear gradient. This layer is 100% of opacity.

#### Layer 4: Pattern (Paper)

This layer is above 'Shadow#2' an contains the paper pattern shipped with GIMP 2.2. This layer doesn't mask the artistic motif so the pattern is applied over the whole image. This layer is set to 15% of opacity.

#### Layer 5: Pattern (Stripes)

This layer is above 'Pattern (Paper)' and contains the stripes used over the artistic motif. This layer do masks the artistic motif so the stripes are only applied to it. This layer is set to 10% of opacity.

#### Layer 6: Shadow#3

This layer is above 'Pattern (Stripes)' and contains a linear gradient from right (6600ff) to left (transparent). This layer masks the artistic motif so the linear gradient doesn't affect it. This layer is set to 15% of opacity.

#### Layer 7: Shadow#4

This layer is above 'Shadow#3' and contains a linear gradient from left (000000) to right (transparent). This layer do masks the artistic motif so the linear gradient doesn't affect it. This layer is set to 10% of opacity.

#### Layer 8: Color#1

This layer is above 'Shadow#4' and is filled with orange (ffae00) color over the whole image. This layer is set to 10% of opacity.

#### Layer 9: Color#2

This layer is above 'Color#1' and is filled with blue (010a88) color over the whole image. This layer is set to 10% of opacity.

**Note** There is no definite combination. To get the appropriate visual design is a matter of constant testing and personal taste.

Finally, use 'Save as copy ...' option to export the final design. To export the final design use the same name of your vectorial design plus '-final.png' extension.

You can repeat these steps to create images for other screen resolutions.

### 3.32.2.2 Anaconda Prompt (syslinux) background

When building syslinux backgrounds it is needed to take into account that the final image is reduced to 16 colors. In desktop background there is no color limitation but syslinux does have. The goal of this section is achieving a final syslinux background as close as possible to desktop backgrounds using 16 colors only.

Another point to consider is the forground and background definition used by syslinux. The syslinux documentation says that the color set in position 0 is the background and color set in position 7 is the forground. The final palette of color used by our background will match that specification. For great contrast we'll use black as background and white as forground. At this poing we have black (000000) and white (ffffff) colors in our syslinux palette, which left us with 14 colors to play with.

Let's begin with 'Xcf/640x300.xcf' layer distribution from bottom to top:

#### Layer 1: Background

This layer is the lowest layer in the image composition and contains the artistic motif image rendered for the same resolution (i.e., 'Img/Png/640x300.png'). This layer is set to 100% of opacity.

#### Layer 2: Pattern (Paper)

This layer is placed above 'Background' layer and contains the paper pattern shipped with GIMP 2.2. This layer doesn't mask the artistic motif. This layer is set to 30% of opacity.

#### Layer 3: Pattern (Stripes)

This layer is placed above 'Pattern (Paper)' layer and contains the stripes pattern shipped with GIMP 2.2. This layer does mask the artistic motif in order to apply the stripes over it only. The background is not affected by the stripes pattern just the artistic motif. This layer is set to 20% of opacity.

#### Layer 4: Shadow#1

This layer is placed above 'Pattern (Stripes)' layer and fills the entire layer area with violet (6600ff) color. This layer do mask the artistic motif in order to applied the violet color to the background area outside the artistic motif only. This layer is set to 15% of opacity.

#### Layer 5: Color#1

This layer is above 'Shadow#1' and is filled with orange (ffae00) color to cover the whole image. This layer is set to 10% of opacity.

#### Layer 6: Color#2

This layer is above 'Color#1' and is filled with blue (010a88) color to cover the whole image. This layer is set to 10% of opacity.

#### Layer 7: Shadow#2

This layer is above 'Color#1' and contains a linear gradient from left (000000) to right (transparent) covering 70% of the image approximately.

At this point we have the composition and should look like the desktop backgrounds. Compared with desktop backgrounds there are some differences in opacity. This is because in our testings the final color information found with this composition produces an acceptable 16 color image. Of course this is something we haven't seen yet.

To define the color information of our current coposition, save the syslinux background composition we've done using 'File > Save as Copy ...' option in the following location:

trunk/Identity/Themes/Motifs/TreeFlower/Backgrounds/Img/Png/640x300-final.png

Now, create the final png version of syslinux backgrounds using the following command:

#### centos-art render --entry=trunk/Identity/Themes/Motifs/TreeFlower/Distro/Anaconda/Prompt

This command will create syslinux-splash final images for all major releases of CentOS distribution the repository has been configured to. The important files here are 'syslinux-splash.png', other files may contain the wrong information because we haven't defined yet the correct color information to use.

Open one 'syslinux-splash.png' file with GIMP and use the 'Image > Mode > Indexed' to reduce image colors up to 16 colors, using the 'Generate optimum palette' feature of GIMP. If the image looks aceptable after reducing colors, use the 'Palettes' menu (Ctrl+P) of GIMP to import a new palette from file and name it 'CentOS-TreeFlower-Syslinux'. Once you've saved the palette, the color information is stored at:

~/.gimp-2.2/palettes/CentOS-TreeFlower-Syslinux.gpl

You need to edit 'CentOS-TreeFlower-Syslinux.gpl' file in order to set the appropriate order of colors. Remember black (000000) in position 0, and white (ffffff) in position 7. Other positions are irrelevant. When editing this file you may find that color reduction did not set black and white colors to their respective values exactly. Change that manually. For example, consider the following palette:

```
GIMP Palette
Name: CentOS-TreeFlower-Syslinux
Columns: 16
#
 0
     0
         0
               Background (black)
 23
    20 35
               Untitled
 34 25 48
               Untitled
 37
    35 60
               Untitled
 47
    36 68
               Untitled
 37
    54 86
               Untitled
 60
    48 90
               Untitled
255 255 255
               Foreground (white)
               Untitled
 66 54 99
 74 61 98
               Untitled
 49 78 126
               Untitled
 43 87 151
               Untitled
 92 89 95
               Untitled
 54 104 183
               Untitled
158 153 156
               Untitled
201 196 195
               Untitled
```

Update the 'Palettes' menu to get the new color positions from the file you just edited and open the palette with double click.

Update the 'syslinux.gpl' file copying the following file:

~/.gimp-2.2/palettes/CentOS-TreeFlower-Syslinux.gpl

 $\operatorname{to}$ 

trunk/Identity/Themes/Motifs/TreeFlower/Colors/syslinux.gpl

With the 'CentOS-TreeFlower-Syslinux' palette opened in the 'Palette Editor', open (Ctrl+O) the following file:

trunk/Identity/Themes/Motifs/TreeFlower/Colors/syslinux.ppm

and replace its color information with that one in 'CentOS-TreeFlower-Syslinux' palette. When you are replacing color information inside 'syslilnux.ppm', remember to keep the order of colors just as they are in the 'CentOS-TreeFlower-Palette' palette.

The 'syslinux.ppm' file is 16 pixels width and 1 pixel height, so you probably need to zoom it a bit to set the color information in their place when using the pen tool with the brush 'Circle (01)  $(1 \times 1)$ '.

Once you've updated the 'syslinux.ppm' file, it is time to update the following file: trunk/Identity/Themes/Motifs/TreeFlower/Colors/syslinux.hex The 'syslinux.hex' file contains the color information in hexadecimal notation. The color information in hexadecimal notation is required by ppmtolss16 command. The ppmtolss16 command produces the final LSS16 image format that is used by syslinux program inside CentOS distribution.

The color information inside 'syslinux.hex' must match the one in 'syslinux.ppm' and 'syslinux.gpl'. For example, based on 'CentOS-TreeFlower-Syslinux' palette of colors above, consider the following 'syslinux.hex' file:

#000000=0 #171423=1 #221930=2 #25233c=3 #2f2444=4 #253656=5 #3c305a=6 #fffff=7 #423663=8 #4a3d62=9 #314e7e=10 #2b5797=11 #5c595f=12 #3668b7=13 #9e999c=14 #c9c4c3=15

### 3.32.2.3 Grub background

3.32.3 Usage

• ...

3.32.4 See also

3.33 trunk/Identity/Widgets

3.33.1 Goals

• ...

3.33.2 Description

3.33.3 Usage

3.33.4 See also

# 3.34 trunk/Locales

The 'trunk/Locales' directory exists to store the translation messages used to produce content in different languages.

Translation messages are organized using the directory structure of the component being translated. For example, if we want to provide translation messages for 'trunk/Manuals/Filesystem', then the 'trunk/Locales/Manuals/Filesystem' directory needs to be created. Once the locale directory exists for the component we want to provide translation messages for, it is necessary to create the translation files where translation messages are. The translation files follows the concepts of xml2po and GNU gettext tools.

The basic translation process is as follow: first, translatable strings are extracted from files and a portable object template (.pot) is created or updated with the information. Using the portable object template, a portable object (.po) is created or updated for translator to locale the messages retrived. Finally, a machine object (.mo) is created from portable object to sotore the translated messages.

Inside the repository there are two ways to retrive translatable strings from files. The first one is through xml2po command and the second through xgettext command. The xml2po is used to retrive translatable strings from XML files (e.g., Scalable Vector Graphics, DocBook, etc.) and the xgettext command is used to retrive translatable strings from shell scripts files (e.g., the files that make the centos-art.sh command-line interface).

When translatable strings are retrived from XML files, using the xml2po command, there is no need to create the machine object as we do when translatable strings ar retrived from shell files, using the xgettext command. The xml2po produces a temporal machine object in order to create a translated XML file. Once the translated XML file has been created the machine object is no longer needed. On the other hand, the machine object produced by the xgettext command is required by the system in order for the show shell script localized messages.

Another difference between xml2po and xgettext we need to be aware of is the directory structure used to store machine objects. In xml2po, the machine object is created in the current working directory as '.xml2po.mo' and can be safetly removed once the translated XML file has been created. In the case of xgettext, the machine object needs to be stored in the '\$TEXTDOMAIN/\$LOCALE/LL\_MESSAGES/\$TEXTDOMAIN.mo' file in order for the system to interpret it and should not be removed since it is the file that contain the translation messages themselves.

Automation of localization tasks is achived through the  $\verb+locale$  functionality of command-line interface.

## 3.35 trunk/Locales/Identity

### 3.35.1 Goals

....
3.35.2 Description
....
3.35.3 Usage
....
3.35.4 See also

## 3.36 trunk/Locales/Identity/Brands

### 3.36.1 Goals

• Organize brands' translation files.

### 3.36.2 Description

Translation files, inside 'trunk/Translations/Identity/Brands' translation entry, don't use default rendering translation functionality, they use the following translation pre-rendering configuration file instead:

#### /home/centos/artwork/trunk/Translation/Identity/Brands/render.conf.sh

Inside 'trunk/Translations/Identity/Brands' translation entry, translation files are symbolic links pointing to the common template translation structure, inside the translation template ('Tpl/') directory.

Inside 'trunk/Translations/Identity/Brands' translation entry, translation files are created using identity design templates as reference. The translation pre-rendering script creates a translation structure where the translation template ('Tpl/') directory structure applies to each single design template available.

For example, if the brands' translation template ('Tpl/') directory has 30 translation files, and there are 20 design templates; the brands' translation pre-rendering script creates a translation structure of symbolic links where the 30 translation files apply the 20 design templates one by one, producing 600 translation symbolic links as result. At this point, when rendering identity, the centos-art script considers translation symbolic links as translation files.

Translation file names, inside brands' translation template ('Tpl') directory have special meaning:

### 3.36.2.1 Conventional file names

Convenctional file names look like 'blue.sed', '2c-a.sed', etc. Replacement commands inside translation file are applied to design templates and translation file names are used as final image name. The image dimensions use the same dimensions that design template has.

### 3.36.2.2 Numeric file names

Numeric file names look like '300.sed', '200.sed', etc. Replacements commands inside translation files are applied to design templates, and translation file names are used as final image name. The final image is saved using an specific 'width' defined by the number part of the translation file name. The image 'height' is automatically scaled based on the previous 'width' definition to maintain the designing ratio.

For example, if your design template has 400x200 pixels of dimension, and you apply a translation file named '300.sed' to it, the final image you get as result will have 300x100 pixels of dimension. The same is true if you use higher numbers like '1024.sed', '2048.sed', etc. In these cases you have bigger images proportionally.

As we are using scalable vector graphics to design identity templates, the image size you produce is not limitted in size. You can use one design template produced in 400x200 pixels to produce larger or shorter PNG images using numeric translation files as described above.

### 3.36.2.3 Translation markers

Inside 'trunk/Translations/Identity/Brands/', translation files combine the following translation markers:

<sup>•</sup>#000000<sup>•</sup>

Specify which color to use when rendering brand images.

Note As translation files inside 'trunk/Translations/Identity/Brands' are symbolic links that point to template translation files, translation markers are defined inside template translation files.

#### 3.36.3 Usage

To render brands' translation files, use the following command:

centos-art render --translation=/home/centos/artwork/trunk/Translations/Identity/Brands

#### 3.36.4 See also

# 3.37 trunk/Locales/Identity/Brands/Tpl

3.37.1 Goals

- 3.37.2 Description
- 3.37.3 Usage

3.37.4 See also

# 3.38 trunk/Locales/Identity/Fonts

## 3.38.1 Goals

This section exists to organize fonts translation files.

## 3.38.2 Description

Translation files, inside 'trunk/Translations/Fonts', have the following structure:

```
s!font-family:Denmark!font-family:DejaVu LGC Sans!
s!font-weight:normal!font-weight:bold!
s!font-style:normal!font-style:italic!
```

Inside 'trunk/Translations/Fonts', there is one translation file for each font preview image you want to produce. This way, we create one translation file for each font-family we use somewhere inside CentOS visual identity.

**Important** Do not create translation files for font-families not used somewhere inside CentOS visual identity. The identity of font entry (see Section 3.3 [trunk Identity Fonts], page 4) is used as reference when someone needs to know which font-families are allowed to use inside CentOS visual identity.

## 3.38.2.1 Translation Markers

Inside 'trunk/Translations/Identity/Fonts', translation files combine the following translation markers:

'font-family:Denmark'

Specify which font family to use when rendering font preview images.

'font-weight:normal'

Specify which font weight to use when rendering font preview images.

'font-style:normal'

Specify which font style to use when rendering font preview images.

## 3.38.3 Usage

Inside 'trunk/Translations/Fonts' you use your favorite text editor to create translation files. Inside 'trunk/Translations/Fonts' there is not translation template directory ('Tpl/'), nor translation rendering using centos-art script. For example, to create the 'dejavu\_lgc\_sans-boldoblique.sed' translation file using vim editor, type the following command:

vim /home/centos/artwork/trunk/Translations/Fonts/dejavu\_lgc\_sans-boldoblique.sed

## 3.38.4 See also

## 3.39 trunk/Locales/Identity/Models

- 3.39.1 Goals
- 3.39.2 Description
- 3.39.3 Usage
- 3.39.4 See also
- 3.40 trunk/Locales/Identity/Release
- 3.40.1 Goals
- 3.40.2 Description
- 3.40.3 Usage
- 3.40.4 See also
- 3.41 trunk/Locales/Identity/Themes
- 3.41.1 Goals
- 3.41.2 Description
- 3.41.3 Usage
- 3.41.4 See also

3.42 trunk/Locales/Identity/Themes/Backgrounds

- 3.42.1 Goals
- ...
- 3.42.2 Description
  - ...
- 3.42.3 Usage
  - ...
- 3.42.4 See also

## 3.43 trunk/Locales/Identity/Themes/Distro/Anaconda/Progress

## 3.43.1 Goals

- Organize Anaconda progress translation templates.
- Organize Anaconda progress translation files in several languages and major releases of CentOS distribution.

## 3.43.2 Description

Use the following command to produce translation files based:

```
trunk/Translations/Identity/Themes/Distro/Anaconda/Progress
```

In order to produce the slide images in PNG format we need to have the translation files first. So we use the following commands to create translation files for CentOS 3, 4, and 5 major releases:

centos-art render --translation --filter='3,4,5'

The above commands will produce the following translation structure:

```
trunk/Translations/Identity/Themes/Distro/Anaconda/Progress
```

```
|-- 3
   |-- en
L
   | |-- 01-welcome.sed
|-- 02-donate.sed
'-- 03-yum.sed
   '-- es
|-- 01-welcome.sed
       |-- 02-donate.sed
       '-- 03-yum.sed
|-- 4
   |-- en
|-- 01-welcome.sed
|-- 02-donate.sed
Т
       '-- 03-yum.sed
'-- es
|-- 01-welcome.sed
       |-- 02-donate.sed
'-- 03-yum.sed
|-- 5
   |-- en
|-- 01-welcome.sed
|-- 02-donate.sed
T
   '-- 03-yum.sed
   '-- es
|-- 01-welcome.sed
|-- 02-donate.sed
       '-- 03-yum.sed
'-- Tpl
   |-- en
   |-- 01-welcome.sed
   |-- 02-donate.sed
   '-- 03-yum.sed
```

```
'-- es
|-- 01-welcome.sed
|-- 02-donate.sed
'-- 03-yum.sed
```

At this point we have all the translation files we need to produce Anaconda progress welcome, donate and yum slides images; in English and Spanish languages; for CentOS 3, CentOS 4, and CentOS 5. That is, a sum of 18 images around.

Now, with translation files in place, let's move to 'trunk/Identity' structure and render them.

• See Section 3.29 [trunk Identity Themes Motifs Modern Distro Anaconda Progress], page 22.

## 3.43.3 Usage

Translation rendering is described in 'trunk/Translations' documentation entry (- Removed(pxref:trunk Translations) -).

3.43.4 See also

## 3.44 trunk/Locales/Identity/Widgets

3.44.1 Goals

• ...

3.44.2 Description

• ...

3.44.3 Usage

• ...

3.44.4 See also

3.45 trunk/Manuals

3.45.1 Goals

• ...

3.45.2 Description

• ...

3.45.3 Usage

• ...

3.45.4 See also

## 3.46 trunk/Scripts

## 3.46.1 Goals

The 'trunk/Scripts' directory exists to:

• Organize the "trunk" development line of automation scripts by programming language.

3.46.2 Description

• ...

3.46.3 Usage

• ...

3.46.4 See also

## 3.47 trunk/Scripts/Bash

### 3.47.1 Goals

The 'trunk/Scripts/Bash' directory exists to organize the trunk development line of 'centos-art.sh' automation script. The 'centos-art.sh' script standardizes frequent tasks inside your working copy of CentOS Artwork Repository.

### 3.47.2 Description

The best way to understand 'centos-art.sh' automation script is studying its source code. However, as start point, you may prefer to read an introductory resume before diving into the source code details.

The 'centos-art.sh' script is written in Bash. Most tasks, inside 'centos-art.sh' script, have been organized in many specific functionalities that you can invoke from the centos-art command-line interface.

When you type the centos-art command in your terminal, the operating system trys to execute that command. In order to execute the command, the operating system needs to know where it is, so the operating system uses the *PATH* environment variable to look for that command location. If your system was prepared to use CentOS Artwork Repository correctly (- **Removed**(pxref:trunk Scripts Bash Functions Verify) -), you should have a symbolic link inside '~/bin/' directory that points to the 'centos-art.sh' script file. As '~/bin/' directory is, by default, inside *PATH* environment variable, the execution of centos-art command runs the 'centos-art.sh' script.

When 'centos-art.sh' script is executed, the first it does is executing the 'trunk/Scripts/Bash/initEnvironment.sh' script to initialize global variables (e.g., gettext variables) and global function scripts. Global function scripts are located inside 'trunk/Scripts/Bash/Functions' directory and their file names begin with 'cli'. Global function scripts provide common functionalities that can be used anywhere inside 'centos-art.sh' script execution environment.

Once global variables and function scripts have been loaded, 'centos-art.sh' script executes the cli global function from 'cli.sh' function script to retrive command-line arguments and define some default values that may be used later by specific function scripts (— **Removed**(pxref:trunk Scripts Bash Functions) —).

As convenction, the 'centos-art.sh' command-line arguments have the following format:

centos-art arg1 --arg2=val2 --arg3=val3

In the above example, 'centos-art' is the command you use to invoke 'centos-art.sh' script. The 'arg1' is required and represents the functionality you want to perform (e.g., 'verify', 'render', 'locale', 'manual', etc.). The remaining arguments are modifiers to 'arg1'. The '--arg2' definition is required and represents, specifically, the action inside the functionality you want to perform. The '--arg3' and on, are optional.

Once command-line arguments have been retrived, the 'centos-art.sh' script loads specific functionalities using the 'cli\_getFunctions.sh' function script. Only one specific functional-

ity can be loaded at one script execution I.e., you run centos-art.sh script to run just one functionality.

+-----+ [ [centos@host]\$ centos-art function --action='value' --option='value' | +-----+ / ~/bin/centos-art --> ~/artwork/trunk/Scripts/Bash/centos-art.sh | centos-art.sh initEnvironment.sh +----+ | cli \$@ +---v-----v-----v---+ | cli\_getFunctions | . +---v----+ . | function1 | . . | function2 . | function3 Ι. . | . +----+ 

Figure 3.1: The functionalities initialization environment.

Functionalities are implemented by means of actions. Once the functionality has been initiazalized, actions initialization take place for that functionality. Actions initialization model is very similar to functions initialization model. But with the difference, that actions are loaded inside function environment, and so, share variables and functions defined inside function environment.

+-	+
 +-	cli_getFunctions
•	function1   .
	+vv+ .
•	.   function1_getActions
•	. +vv+
•	action 1
•	action 2
•	action n
•	++
•	• • • • • • • • •
•	· · · · · · · · · · · · · · · · · · ·
•	++ .
•	function2   .
•	· · · · · ·
•	.   function2_getActions
•	action 1
•	action 2
•	action n
•	++
	++ .
	function3   .
	+vv+ .
•	.   function3_getActions
	. +vv+
•	action 1
•	action 2
•	action n
•	++
•	
•	
•	

Figure 3.2: The actions initialization environment.

## 3.47.3 Usage

The 'centos-art.sh' script usage information is described inside each specific function documentation (- Removed(pxref:trunk Scripts Bash Functions) -).

## 3.47.4 See also

# 3.48 trunk/Scripts/Bash/cli

# 3.49 trunk/Scripts/Bash/cli/Functions

### 3.49.1 Goals

The 'trunk/Scripts/Bash/Functions' directory exists to organize 'centos-art.sh' specific functionalities.

### 3.49.2 Description

The specific functions of 'centos-art.sh' script are designed with "Software Toolbox" philosophy (see (undefined) [Toolbox introduction], page (undefined)) in mind: each program "should do one thing well". Inside 'centos-art.sh' script, each specific functionality is considered a program that should do one thing well. Of course, if you find that they still don't do it, feel free to improve them in order for them to do so.

The specific functions of 'centos-art.sh' script are organized inside specific directories under 'trunk/Scripts/Bash/Functions' location. Each specific function directory should be named as the function it represents, with the first letter in uppercase. For example, if the function name is render, the specific function directory for it would be 'trunk/Scripts/Bash/Functions/Render'.

To better understand how specific functions of 'centos-art.sh' script are designed, lets create one function which only goal is to output different kind of greetings to your screen.

When we create specific functions for 'centos-art.sh' script it is crucial to know what these functions will do exactly and if there is any function that already does what we intend to do. If there is no one, it is good time to create them then. Otherwise, if functionalities already available don't do what you exactly expect, contact their authors and work together to improve them.

Tip Join CentOS developers mailing list centos-art@centos.org to share your ideas.

It is also worth to know what global functions and variables do we have available inside 'centos-art.sh' script, so advantage can be taken from them. Global variables are defined inside global function scripts. Global functions scripts are stored immediatly under 'trunk/Scripts/Bash/Functions' directory, in files begining with 'cli' prefix.

OK, let's begin with our functionality example.

What function name do we use? Well, lets use greet. Note that 'hello' word is not a verb; but an expression, a kind of greeting, an interjection specifically. In contrast, 'greet' is a verb and describes what we do when we say 'Hello!', 'Hi!', and similar expressions.

So far, we've gathered the following function information:

```
Name: greet
Path: trunk/Scripts/Bash/Functions/Greet
File: trunk/Scripts/Bash/Functions/Greet/greet.sh
```

The 'greet.sh' function script is the first file 'centos-art.sh' script loads when the 'greet' functionality is called using commands like 'centos-art greet --hello='World'. The 'greet.sh' function script contains the greet function definition.

Inside 'centos-art.sh' script, as convenction, each function script has one top commentary, followed by one blank line, and then one function definition below it only.

Inside 'centos-art.sh' script functions, top commentaries have the following components: the functionality description, one-line for copyright note with your personal information, the license under which the function source code is released —the 'centos-art.sh' script is released as GPL, so do all its functions—, the **\$Id\$** keyword of Subversion is later expanded by **svn** propset command.

In our greet function example, top commentary for 'greet.sh' function script would look like the following:

```
#!/bin/bash
#
# greet.sh -- This function outputs different kind of greetings to
# your screen. Use this function to understand how centos-art.sh
# script specific functionalities work.
# Copyright (C) YEAR YOURFULLNAME
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
# USA.
#
# -
             _____
# $Id$
```

After top commentary, separated by one blank line, the **greet** function definition would look like the following:

function greet {

```
# Define global variables.
# Define command-line interface.
greet_getActions
```

}

The first definition inside greet function, are global variables that will be available along greet function execution environment. This time we didn't use global variable definitions for greet function execution environment, so we left that section empty.

Later, we call greet\_getActions function to define the command-line interface of greet functionality. The command-line interface of greet functionality defines what and how actions are performed, based on arguments combination passed to 'centos-art.sh' script.

```
function greet_getActions {
```

```
case "$ACTIONNAM" in
    --hello )
      greet_doHello
    ;;
    --bye )
```

```
greet_doBye
;;
* )
    cli_printMessage "'gettext "The option provided is not valid."'"
    cli_printMessage "$(caller)" 'AsToKnowMoreLine'
```

esac

}

The ACTIONNAM global variable is defined in 'cli.sh' function script and contains the value passed before the equal sign (i.e., '=') in the second command-line argument of 'centos-art.sh' script. For example, if the second command-line argument is '--hello='World'', the value of ACTIONNAM variable would be '--hello'. Using this configuration let us deside which action to perform based on the action name passed to 'centos-art.sh' script as second argument.

The greet function definition makes available two valid greetings through '--hello' and '--bye' options. If no one of them is provided as second command-line argument, the '\*' case is evaluated instead.

The '\*' case and its two lines further on should always be present in '\_getActions.sh' function scripts, no matter what specific functionality you are creating. This convenction helps the user to find out documentation about current functionality in use, when no valid action is provided.

The greet\_doHello and greet\_doBye function definitions are the core of greet specific functionality. In such function definitions we set what our greet function really does: to output different kinds of greetings.

function greet\_doHello {

```
cli_printMessage "'gettext "Hello"' $ACTIONVAL"
```

}

The greet\_doHello function definition is stored in 'greet\_doHello.sh' function script.

function greet\_doBye {

```
cli_printMessage "'gettext "Goodbye"' $ACTIONVAL"
```

}

The greet\_doBye function definition is stored in the 'greet\_doBye.sh' function script.

Both 'greet\_doHello.sh' and 'greet\_doBye.sh' function scripts are stored inside greet function directory path (i.e. 'trunk/Scripts/Bash/Functions/Greet').

The ACTIONVAL global variable is defined in 'cli.sh' function script and contains the value passed after the equal sign (i.e., '=') in the second command-line argument of 'centos-art.sh' script. For example, if the second command-line argument is '--hello='World'', the value of ACTIONVAL variable would be 'World' without quotes.

Let's see how greet specific functionality files are organzied under greet function directory. To see file organization we use the tree command:

```
trunk/Scripts/Bash/Functions/Greet
|-- greet_doBye.sh
|-- greet_doHello.sh
```

```
|-- greet_getActions.sh
'-- greet.sh
```

To try the greet specific functionality we've just created, pass the function name (i.e., 'greet') as first argument to 'centos-art.sh' script, and any of the valid options as second argument. Some examples are illustrated below:

```
[centos@projects ~]$ centos-art greet --hello='World'
Hello World
[centos@projects ~]$ centos-art greet --bye='World'
Goodbye World
[centos@projects ~]$
```

The word 'World' in the examples above can be anything. In fact, change it to have a little fun.

Now that we have a specific function that works as we expect, it is time to document it. To document greet specific functionality, we use its directory path and the manual functionality (- Removed(pxref:trunk Scripts Bash Functions Manual) --) of 'centos-art.sh' script, just as the following command illustrates:

```
centos-art manual --edit=trunk/Scripts/Bash/Functions/Greet
```

To have a well documented function helps user to understand how your function really works, and how it should be used. When no valid action is passed to a function, the 'centos-art.sh' script uses the function documentation entry as vehicle to communicate which the valid functions are. When no documentation entry exists for a function, the 'centos-art.sh' script informs that no documentation entry exists for such function and requests user to create it right at that time.

Now that we have documented our function, it is time to translate its output messages to different languages. To translate specific functionality output messages to different languages we use the locale functionality (— Removed(pxref:trunk Scripts Bash Functions Locale) —) of 'centos-art.sh' script, just as the following command illustrates:

centos-art locale --edit

Warning To translate output messages in different languages, your system locale information —as in LANG environment variable— must be set to that locale you want to produce translated messages for. For example, if you want to produce translated messages for Spanish language, your system locale information must be set to 'es\_ES.UTF-8', or similar, first.

Well, it seems that our example is rather complete by now.

In greet function example we've described so far, we only use cli\_printMessage global function in action specific function definitions in order to print messages, but more interesting things can be achieved inside action specific function definitions. For example, if you pass a directory path as action value in second argument, you could retrive a list of files from therein, and process them. If the list of files turns too long or you just want to control which files to process, you could add the third argument in the form '--filter='regex' and reduce the amount of files to process using a regular expression pattern.

The greet function described in this section may serve you as an introduction to understand how specific functionalities work inside 'centos-art.sh' script. With some of luck this introduction will also serve you as motivation to create your own 'centos-art.sh' script specific functionalities.

By the way, the greet functionality doesn't exist inside 'centos-art.sh' script yet. Would you like to create it?

## 3.49.3 Usage

## 3.49.3.1 Global variables

The following global variables of 'centos-art.sh' script, are available for you to use inside specific functions:

#### TEXTDOMAIN

Default domain used to retrieve translated messages. This value is set in 'initFunctions.sh' and shouldn't be changed.

#### TEXTDOMAINDIR

Default directory used to retrieve translated messages. This value is set in 'initFunctions.sh' and shouldn't be changed.

#### FUNCNAM

Define function name.

Function names associate sets of actions. There is one set of actions for each unique function name inside 'centos-art.sh' script.

Dunction names are passed as first argument in 'centos-art.sh' command-line interface. For example, in the command 'centos-art render --entry=path/to/dir --filter=regex', the ACTION passed to 'centos-art.sh' script is 'render'.

When first argument is not provided, the 'centos-art.sh' script immediatly ends its execution.

FUNCDIR	[Variable]
FUNCDIRNAME	[Variable]
FUNCSCRIPT	[Variable]
FUNCCONFIG	[Variable]
ACTIONNAM	[Variable]

Define action name.

Each action name identifies an specific action to perform, inside an specific function.

Action name names aare passed as second argument in 'centos-art.sh' command-line interface. For example, in the command 'centos-art render --entry=path/to/dir --filter=regex', the ACTIONNAM passed to 'centos-art.sh' script is '--entry'.

When second argument is not provided, the 'centos-art.sh' script immediatly ends its execution.

#### ACTIONVAL

Define action value.

Action values are associated to just one action name. Action values contain the working copy entry over which its associated action will be performed in. Working copy entries can be files or directories inside the working copy.

#### REGEX

Define regular expression used as pattern to build the list of files to process.

By default, *REGEX* variable is set to .+ to match all files.

Functions that need to build a list of files to process use the option '--filter' to redefine *REGEX* variable default value, and so, control the amount of files to process.

[Variable]

[Variable]

[Variable] tions.sh'

[Variable]

[Variable]

#### ARGUMENTS

[Variable]

Define optional arguments.

Optional arguments, inside 'centos-art.sh' script, are considered as all command-line arguments passed to 'centos-art.sh' script, from third argument position on. For example, in the command 'centos-art render --entry=path/to/dir --filter=regex', the optional arguments are from '--filter=regex' argument on.

Optional arguments are parsed using **getopt** command through the following base construction:

```
# Define short options we want to support.
local ARGSS=""
# Define long options we want to support.
local ARGSL="filter:,to:"
# Parse arguments using getopt(1) command parser.
cli_doParseArguments
# Reset positional parameters using output from (getopt) argument
# parser.
eval set -- "$ARGUMENTS"
# Define action to take for each option passed.
while true; do
    case "$1" in
        --filter )
            REGEX="$2"
            shift 2
            ;;
        --to )
            TARGET="$2"
            shift 2
            ;;
        * )
            break
    esac
done
```

Optional arguments provide support to command options inside 'centos-art.sh' script. For instance, consider the Subversion (svn) command, where there are many options (e.g., 'copy', 'delete', 'move', etc), and inside each option there are several modifiers (e.g., '--revision', '--message', '--username', etc.) that can be combined one another in their short or long variants.

The ARGUMENTS variable is used to store arguments passed from command-line for later use inside 'centos-art.sh' script. Storing arguments is specially useful when we want to run a command with some specific options from them. Consider the following command:

centos-art path --copy=SOURCE --to=TARGET --message="The commit message goes here." --

In the above command, the '--message', and '--username' options are specific to svn copy command. In such cases, options are not interpreted by 'centos-art.sh' script itself. Instead, the 'centos-art.sh' script uses getopt to retrive them and store them in the ARGU-MENTS variable for later use, as described in the following command:

# Build subversion command to duplicate locations inside the

#### # workstation. eval svn copy \$SOURCE \$TARGET --quiet \$ARGUMENTS

When getopt parses ARGUMENTS, we may use short options (e.g., '-m') or long options (e.g., '--message'). When we use short options, arguments are separated by one space from the option (e.g., '-m 'This is a commit message.'). When we use long options arguments are separated by an equal sign ('=') (e.g., '--message='This is a commit message').

In order for getopt to parse ARGUMENTS correctly, it is required to provide the short and long definition of options that will be passed or at least supported by the command performing the final action the function script exists for.

As convenction, inside 'centos-art.sh' script, short option definitions are set in the ARGSS variable; and long option definitions are set in the ARGSL variable.

When you define short and long options, it may be needed to define which of these option arguments are required and which not. To define an option argument as required, you need to set one colon ':' after the option definition (e.g., '-o m: -l message:'). On the other hand, to define an option argument as not required, you need to set two colons '::' after the option definition (e.g., '-o m:: -l message::').

#### EDITOR

Default text editor.

The 'centos-art.sh' script uses default text EDITOR to edit pre-commit subversion messages, translation files, configuration files, script files, and similar text-based files.

If EDITOR environment variable is not set, 'centos-art.sh' script uses '/usr/bin/vim' as default text editor. Otherwise, the following values are recognized by 'centos-art.sh' script:

- '/usr/bin/vim'
- '/usr/bin/emacs'
- '/usr/bin/nano'

If no one of these values is set in EDITOR environment variable, 'centos-art.sh' uses '/usr/bin/vim' text editor by default.

## 3.49.3.2 Global functions

Function scripts stored directly under 'trunk/Scripts/Bash/Functions/' directory are used to define global functions. Global functions can be used inside action specific functionalities and or even be reused inside themselves. This section provides introductory information to global functions you can use inside 'centos-art.sh' script.

### cli\_checkActionArguments

Validate action value (ACTIONVAL) variable.

The action value variable can take one of the following values:

- 1. Path to one directory inside the local working copy,
- 2. Path to one file inside the local working copy,

If another value different from that specified above is passed to action value variable, the 'centos-art.sh' script prints an error message and ends script execution.

### cli\_checkFiles FILE [TYPE]

Verify file existence.

cli\_checkFiles receives a FILE absolute path and performs file verification as specified in TYPE. When TYPE is not specified, cli\_checkFiles verifies FILE existence, no matter what kind of file it be. If *TYPE* is specified, use one of the following values:

[Variable]

[Function]

#### 'd' 'directory'

Ends script execution if *FILE* is not a directory.

When you verify directories with cli\_checkFiles, if directory doesn't exist, 'centos-art.sh' script asks you for confirmation in order to create that directory. If you answer positively, 'centos-art.sh' script creates that directory and continues script flows normally. Otherwise, if you answer negatively, 'centos-art.sh' ends script execution with an error and documentation message.

### $`{\tt f}"$

#### 'regular-file'

Ends script execution if *FILE* is not a regular file.

#### 'h'

symbolic-link'					
E 1-	 	: c	TIT	$\mathbf{\Gamma}$	•

Ends script execution if *FILE* is not a symbolic link.

### $\mathbf{x}'$

#### 'execution'

Ends script execution if *FILE* is not executable.

- 'fh' Ends script execution if *FILE* is neither a regular file nor a symbolic link.
- 'fd' Ends script execution if *FILE* is neither a regular file nor a directory.

#### 'isInWorkingCopy'

Ends script execution if *FILE* is not inside the working copy.

As default behaviour, if *FILE* passes all verifications, 'centos-art.sh' script continues with its normal flow.

### cli\_commitRepoChanges [LOCATION]

[Function]

Syncronize changes between repository and working copy.

The cli\_commitRepoChanges function brings changes from the central repository down to the working copy—using svn update—, checks the working copy changes—using svn status command—, prints status report—using both svn update and svn status commands output, and finally, commits recent changes from the working copy up to the repository—using svn commit command—.

Previous to commit the working copy changes up to the central repository, the cli\_ commitRepoChanges function asks you to verify changes—using svn diff command—, and later, another confirmation question is shown to be sure you really want to commit changes up to central repository.

If *LOCATION* argument is not specified, the value of *ACTIONVAL* variable is used as reference instead.

--> Bringing changes from the repository into the working copy --> Checking changes in the working copy Added 0 file from the repository. Deleted 0 file from the repository. Updated 0 file from the repository. Conflicted 0 file from the repository. Merged 0 file from the repository. Modified 4 files from the working copy. Unversioned 0 file from the working copy. Deleted 0 file from the working copy. Added 0 file from the working copy.

Figure 3.3: The cli\_commitRepoChanges function output.

Call the cli\_commitRepoChanges function before or/and after calling functions that modify files or directories inside the working copy as you may need to.

#### cli\_doParseArguments

Redefine arguments (ARGUMENTS) global variable using getopt command output. For more information about how to use cli\_doParseArguments function, see ARGUMENTS variable description above.

#### cli\_doParseArgumentsReDef \$@

Initialize/reset arguments (ARGUMENTS) global variable using positional parameters variable (\$@) as reference.

When we work inside function definitions, positional parameters are reset to the last function definition positional parameters. If you need to redefine positional parameters from one specific function, you need to call cli\_doParseArgumentsReDef with the positional parameters variable (\$@), set as first argument, to that specific function you want to redefine positional parameters at.

#### cli\_getArguments

Initialize function name (*FUNCNAM*), action name (*ACTIONNAM*), and action value (*AC-TIONVAL*) global variables, using positional parameters passed in *\$*<sup>a</sup> variable.

The cli\_getArguments function is called from cli.sh function script, using cli function positional parameters (i.e., the positional parameters passed as arguments in the command-line) as first function argument.

Once command-line positional parameters are accesible to 'centos-art.sh' script execution evironment, cli\_getArguments uses regular expression to retrive action variables from first and second argument. The first argument defines the value used as function name (FUNC-NAM), and the second argument defines both values used as action name (ACTIONNAM) and action value (ACTIONVAL), respectively.

The first argument is a word in lower case. This word specifies the name of the functionality you want to use (e.g., 'render' to render images, 'manual' to work on documentation, and so on.)

The second argument has a long option style (e.g., '--option=value'). The '--option' represents the action name (ACTIONNAM), and the characters inbetween the equal sign ('=') and the first space character, are considered as the action value (ACTIONVAL). In order to provide action values with space characters inbetween you need to enclose action value

[Function]

[Function]

with quotes like in '--option='This is long value with spaces inbetween'. Generally, action values are used to specify paths over which the action name acts on.

Once action related variables (i.e., FUNCNAM, ACTIONNAM, and ACTIONVAL) are defined and validated, cli\_getArguments shifts the positional arguments to remove the first two arguments passed (i.e., those used to retrive action related variables) and redefine the arguments (ARGUMENTS) global variable with the new positional parameters information.

### cli\_getFunctions

Initialize funtionalities supported by 'centos-art.sh' script.

Functionalities supported by 'centos-art.sh' script are organized in functionality directories under 'trunk/Scripts/Bash/Functions/' directory. Each functionality directory stores function scripts to the functionality such directory was created for. Function scripts contain function definitions. Function definitions contain several commands focused on achieving one specific task only (i.e., the one such functionality was created for).

In order for 'centos-art.sh' script to recognize a functionality, such functionality needs to be stored under 'trunk/Scripts/Bash/Functions/' in a directory written capitalized (i.e., the whole name is written in lowercase except the first character which is in uppercase). The directory where one specific functionality is stored is known as the 'functionality directory'.

Inside each functionality directory, the functionalty itself is implemented through function scripts. Function scripts are organized in files independently one another and written in 'camelCase' format with the function name as prefix. Separation between prefix and description is done using underscore ('\_') character.

In order for 'centos-art.sh' script to load functionalities correctly, function definition inside function scripts should be set using the 'function' reserved word, just as in the following example:

```
function prefix_doSomething {
```

# Do something here...

```
}
```

The above function definition is just a convenction we use, in order to make identification of function names easier read and automate by 'centos-art.sh' script initialization commands, once 'centos-art.sh' script determines which functionality directory to use. Specifically, in order to initialize and export functions, 'centos-art.sh' script executes all function scripts inside the functionality directory, and later grep on them using a regular expression pattern, where the 'function' reserved word is used as reference to retrive the function names and export them to 'centos-art.sh' script execution environment, and so, make function definitions —from function scripts inside the functionality directory— available for further calls.

If the functionality specified in the command-line first argument doesn't have a functionality directory, 'centos-art.sh' script considers the functionality provided in the command-line as invalid functionality and immediatly stops script execution with an error message.

In order to keep visual consistency among function scripts, please consider using the following function script design model as template for your own function scripts:

```
#!/bin/bash
#
# prefix_doSomething.sh -- This function illustrates function scripts
# design model you can use to create your own function scripts inside
# centos-art.sh script.
```

# # Copyright (C) YEAR YOURFULLNAME # # This program is free software; you can redistribute it and/or modify # it under the terms of the GNU General Public License as published by # the Free Software Foundation; either version 2 of the License, or # (at your option) any later version. # # This program is distributed in the hope that it will be useful, but # WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU # General Public License for more details. # # You should have received a copy of the GNU General Public License # along with this program; if not, write to the Free Software # Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 # USA. # # # \$Td\$ \_\_\_\_\_ function prefix\_doSomething {

# Do something here...

}

### cli\_getCountryCodes [FILTER]

Output country codes supported by 'centos-art.sh' script.

The cli\_getCountryCodes function outputs a list with country codes as defined in ISO3166 standard. When *FILTER* is provided, cli\_getCountryCodes outputs country codes that match *FILTER* regular expression pattern.

### cli\_getCountryName [FILTER]

Outputs country name supported by 'centos-art.sh' script.

The cli\_getCountryName function reads one language locale code in the format LL\_CC and outputs the name of its related country as in ISO3166. If filter is specified, cli\_getCountryName returns the country name that matches the locale code specified in *FILTER*, exactly.

### cli\_getCurrentLocale

Output current locale used by 'centos-art.sh' script.

The cli\_getCurrentLocale function uses LANG environment variable to build a locale pattern that is later applied to cli\_getLocales function output in order to return the current locale that 'centos-art.sh' script works with.

The current locale information, returned by cli\_getCurrentLocale, is output from more specific to less specific. For example, if 'en\_GB' locale exists in cli\_getLocales function output, the 'en\_GB' locale would take precedence before 'en' locale.

Locale precedence selection is quite important in order to define the locale type we use for message translations. For example, if 'en\_GB' is used, we are also saying that the common language specification for English language (i.e., 'en') is no longer used. Instead, we are using

[Function]

[Function]

English non-common country-specific language specifications like 'en\_AU', 'en\_BW', 'en\_GB', 'en\_US', etc., for message translations.

Use cli\_getCurrentLocale function to know what current locale information to use inside 'centos-art.sh' script.

cli\_getFilesList [LOCATION]

[Function]

Output list of files to process.

The cli\_getFilesList function uses LOCATION variable as source location to build a list of files just as specified by regular expression (REGEX) global variable. Essentially, what the cli\_getFilesList function does is using find command to look for files in the location (LOCATION) just as posix-egrep regular expression (REGEX) specifies.

If *LOCATION* is not specified when cli\_getFilesList function is called, the action value (*ACTIONVAL*) global variable is used as location value instead.

By default, if the regular expression (*REGEX*) global variable is not redefined after its first definition in the cli function, all files that match default regular expression value (i.e., '.+') will be added to the list of files to process. Otherwise, if you redefine the regular expression global variable after its first definition in the cli function and before calling cli\_getFilesList function, the last value you specified is used instead.

When you need to customize the regular expression (*REGEX*) global variable value inside a function, do not redefine the global variable (at least you be absolutly convinced you need to). Instead, set the regular expression global variable as 'local' to the function you need a customized regular expression value for. If we don't redefine the regular expression global variable as local to the function, or use another name for the regular expression variable (which is not very convenient in order to keep the amount of names to remember low), you may experiment undesired concantenation issues that make your regular expression to be something different from that you expect them to be, specially if the function where you are doing the variable redefinition is called several times during the same script execution.

As result, the cli\_getFilesList re-defines the value of *FILES* variable with the list of files the find command returned. As example, consider the following construction:

function prefix\_doSomething {

}

## cli\_getLangCodes [FILTER]

Outputs language codes supported by 'centos-art.sh' script.

cli\_getLangCodes function outputs a list of language codes as defined in ISO639 standard. When *FILTER* is provided, cli\_getLangCodes outputs language codes that match *FILTER* regular expression pattern.

## cli\_getLangName [FILTER]

Outputs language names supported by 'centos-art.sh' script.

cli\_getLangName function reads one language locale code in the format LL\_CC and outputs the language related name as in ISO639. If filter is specified, cli\_getLangName returns the language name that matches the locale code specified in *FILTER*, exactly.

## cli\_getLocales

Output locale codes supported by 'centos-art.sh' script.

Occasionally, you use cli\_getLocales function to add locale information in non-common country-specific language ('LL\_CC') format for those languages (e.g., 'bn\_IN', 'pt\_BR', etc.) which locale differences cannot be solved using common language specifications ('LL') into one unique common locale specification (e.g., 'bn', 'pt', etc.).

## cli\_getRepoName NAME TYPE

Sanitate file names.

Inside 'centos-art.sh' script, specific functionalities rely both in cli\_getRepoName and repository file system organization to achieve their goals. Consider cli\_getRepoName function as central place to manage file name convenctions for other functions inside 'centos-art.sh' script.

**Important cli\_getRepoName** function doesn't verify file or directory existence, for that purpose use cli\_checkFiles function instead.

The NAME variable contains the file name or directory name you want to sanitate.

The TYPE variable specifies what type of sanitation you want to perform on NAME. The TYPE can be one of the following values:

ʻd'

'directory'

Sanitate directory NAMEs.

f'

'regular-file'

Sanitate regular file NAMEs.

Use cli\_getRepoName function to sanitate file names and directory names before their utilization.

Use cli\_getRepoName when you need to change file name convenctions inside 'centos-art.sh' script.

When we change file name convenctions inside cli\_getRepoName what we are really changing is the way functions interpret repository file system organization. Notice that when we change a file name (e.g., a function name), it is necessary to update all files where such file name is placed on. This may require a massive substitution inside the repository, each time we change name convenctions in the repository (— Removed(pxref:trunk Scripts Bash Functions Path) —, for more information).

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[Function]

[Function]

[Function]

### cli\_getRepoStatus [LOCATION]

Request repository status.

This function requests the status of a LOCATION inside the working copy using the svn status command and returns the first character in the output line, just as described in svn help status. If LOCATION is not a regular file or a directory, inside the working copy, the 'centos-art.sh' script prints a message and ends its execution.

Use this function to perform verifications based a repository LOCATION status.

### cli\_getTemporalFile NAME

Output absolute path to temporal file NAME.

The cli\_getTemporalFile function uses '/tmp' directory as source location to store temporal files, the 'centos-art.sh' script name, and a random identification string to let you run more than one 'centos-art.sh' script simultaneously on the same user session. For example, due the following temporal file definition:

cli\_getTemporalFile \$FILE

If FILE name is 'instance.svg' and the unique random string is 'f16f7b51-ac12-4b7f-9e66-72df847f12de', the final temporal file, built from previous temporal file definition, would be:

/tmp/centos-art.sh-f16f7b51-ac12-4b7f-9e66-72df847f12de-instance.svg

When you use the cli\_getTemporalFile function to create temporal files, be sure to remove temporal files created once you've ended up with them. For example, consider the following construction:

for FILE in \$FILES;do

```
# Initialize temporal instance of file.
INSTANCE=$(cli_getTemporalFile $FILE)
# Do something ...
# Remove temporal instance of file.
if [[ -f $INSTANCE ]];then
    rm $INSTANCE
fi
```

#### done

Use the cli\_getTemporalFile function whenever you need to create temporal files inside 'centos-art.sh' script.

#### cli\_getThemeName

Output theme name.

In order for cli\_getThemeName function to extract theme name correctly, the ACTIONVAL variable must contain a directory path under 'trunk/Identity/Themes/Motifs/' directory structure. Otherwise, cli\_getThemeName returns an empty string.

### cli\_printMessage MESSAGE [FORMAT]

Define standard output message definition supported by 'centos-art.sh' script.

When FORMAT is not specified, cli\_printMessage outputs information just as it was passed in MESSAGE variable. Otherwise, FORMAT can take one of the following values:

#### 'AsHeadingLine'

To print heading messages.

[Function]

[Function]

	\$MESSAGE
'AsWarningLin	
-	print warning messages.
	WARNING: \$MESSAGE
	WARNING. MESSAGE
'AsNoteLine'	• • •
10	print note messages.
	NOTE: \$MESSAGE
'AsUpdatingLi	ne'
- 0	print 'Updating' messages on two-columns format.
	Updating \$MESSAGE
'AsRemovingLi	
10	print 'Removing' messages on two-columns format.         Removing       \$MESSAGE
'AsCheckingLi	
-	print 'Checking' messages on two-columns format.
	Checking \$MESSAGE
'AsCreatingLi	
То	print 'Creating' messages on two-columns format.
(	Creating \$MESSAGE
'AsSavedAsLin To	ne' o print 'Saved as' messages on two-columns format.
	Saved as \$MESSAGE
'AsLinkToLine	3'
То	print 'Linked to' messages on two-columns format.
	Linked to \$MESSAGE
'AsMovedToLin	
10	print 'Moved to' messages on two-columns format. Moved to \$MESSAGE
'AsTranslatic	
	print 'Translation' messages on two-columns format.
	Translation \$MESSAGE
'AsConfigurat	
То	print 'Configuration' messages on two-columns format.
(A - D	Configuration \$MESSAGE
'AsResponseLi To	print response messages on one-column format.
	> \$MESSAGE

#### 'AsRequestLine'

To print request messages on one-column format. Request messages output messages with one colon (':') and without trailing newline ('n') at message end.

#### \$MESSAGE:

### 'AsYesOrNoRequestLine'

To print 'yes or no' request messages on one-column format. If something different from 'y' is answered (when using en\_US.UTF-8 locale), script execution ends immediatly.

#### \$MESSAGE [y/N]:

When we use 'centos-art.sh' script in a locale different from en\_US.UTF-8, confirmation answer may be different from 'y'. For example, if you use es\_ ES.UTF-8 locale, the confirmation question would look like:

```
$MESSAGE [s/N]:
```

and the confirmation answer would be 's', as it is on Spanish 's' word.

Definition of which confirmation word to use is set on translation messages for your specific locale information. — **Removed**(xref:trunk Scripts Bash Functions Locale) —, for more information about locale-specific translation messages.

#### 'AsToKnowMoreLine'

To standardize 'to know more, run the following command:' messages. When the 'AsToKnowMoreLine' option is used, the *MESSAGE* value should be set to "\$(caller)". caller is a Bash builtin that returns the context of the current subroutine call. 'AsToKnowMoreLine' option uses caller builtin output to build documentation entries dynamically.

```
To know more, run the following command:
centos-art manual --read='path/to/dir'
```

Use 'AsToKnowMoreLine' option after errors and for intentional script termination.

#### 'AsRegularLine'

To standardize regular messages on one-column format.

When *MESSAGE* contains a colon inside (e.g., 'description: message'), the cli\_printMessage function outputs *MESSAGE* on two-columns format.

Use cli\_printMessage function whenever you need to output information from 'centos-art.sh' script.

Tip To improve two-columns format, change the following file:

trunk/Scripts/Bash/Styles/output\_forTwoColumns.awk

### 3.49.3.3 Specific functions

The following specific functions of 'centos-art.sh' script, are available for you to use:

3.49.4 See also

## 3.50 trunk/Scripts/Bash/cli/Functions/Help

### 3.50.1 Goals

• ...

3.50.2 Description

• ...

3.50.3 Usage

• ...

3.50.4 See also

3.51 trunk/Scripts/Bash/cli/Functions/Html

3.51.1 Goals

• ...

3.51.2 Description

• ...

3.51.3 Usage

• ...

3.51.4 See also

## 3.52 trunk/Scripts/Bash/cli/Functions/Locale

3.52.1 Goals

• ...

### 3.52.2 Description

This command looks for '.sh' files inside Bash directory and extracts translatable strings from files, using xgettext command, in order to create a portable object template ('centos-art.sh.pot') file for them.

With the 'centos-art.sh.pot' file up to date, the centos-art command removes the temporal list of files sotred inside '/tmp' directory and checks the current language of your user's session to create a portable object file for it, in the location '\$CLI\_LANG/\$CLI\_LANG.po'.

The *CLI\_LANG* variable discribes the locale language used to output messages inside centos-art command. The locale language used inside centos-art command is taken from the LANG environment variable. The *CLI\_LANG* variable has the 'LL\_CC' format, where 'LL' is a language code from the ISO-639 standard, and 'CC' a country code from the ISO-3166 standard.

The LANG environment variable is set when you do log in to your system. If you are using a graphical session, change language to your native language and do login. That would set and exoprt the LANG environment variable to the correct value. On the other side, if you are using a text session edit your '~/.bash\_profile' file to set and export the LANG environment variable to your native locale as defines the locale -a command output; do logout, and do login again.

At this point, the LANG environment variable has the appropriate value you need, in order to translate centos-art.sh messages to your native language (the one set in LANG environment variable).

With the '\$CLI\_LANG/\$CLI\_LANG.po' file up to date, the centos-art opens it for you to update translation strings. The centos-art command uses the value of *EDITOR* environment variable to determine your favorite text editor. If no value is defined on *EDITOR*, the '/usr/bin/vim' text editor is used as default.

When you finishd PO file edition and quit text editor, the centos-art command creates the related machine object in the location '\$CLI\_LANG/LC\_MESSAGES/\$TEXTDOMAIN.mo'.

At this point, all translations you made in the PO file should be available to your language when running centos-art.sh script.

In order to make the centos-art.sh internationalization, the centos-art.sh script was modified as described in the gettext info documentation (info gettext). You can find such modifications in the following files:

- 'trunk/Scripts/Bash/initFunctions.sh'
- 'trunk/Scripts/Bash/Functions/Help/cli\_localeMessages.sh'
- 'trunk/Scripts/Bash/Functions/Help/cli\_localeMessagesStatus.sh'

• ...

### 3.52.3 Usage

'centos-art locale --edit'

Use this command to translate command-line interface output messages in the current system locale you are using (as specified in LANG environment variable).

'centos-art locale --list'

Use this command to see the command-line interface locale report.

### 3.52.4 See also

## 3.53 trunk/Scripts/Bash/cli/Functions/Manual

3.53.1 Goals

• ...

```
3.53.2 Description
```

• ...

3.53.3 Usage

• ...

3.53.4 See also

## 3.54 trunk/Scripts/Bash/cli/Functions/Path

### 3.54.1 Goals

This section exists to organize files related to path functionality. The path functionality standardizes movement, syncronization, branching, tagging, and general file maintainance inside the repository.

## 3.54.2 Description

"CentOS like trees, has roots, trunk, branches, leaves and flowers. Day by day they work together in freedom, ruled by the laws of nature and open standards, to show the beauty of its existence."

## 3.54.2.1 Repository layout

The repository layout describes organization of files and directories inside the repository. The repository layout provides the standard backend required for automation scripts to work correctly. If such layout changes unexpectedly, automation scripts may confuse themselves and stop doing what we expect from them to do.

As convenction, inside CentOS Artwork Repository, we organize files and directories related to CentOS corporate visual identity under three top level directories named: 'trunk/', 'branches/', and 'tags/'.

The 'trunk/' directory (see Chapter 3 [trunk], page 3) organizes the main development line of CentOS corporate visual identity. Inside 'trunk/' directory structure, the CentOS corporate visual identity concepts are implemented using directories. There is one directory level for each relevant concept inside the repository. The 'trunk/' directory structure is mainly used to perform development tasks related to CentOS corporate visual identity.

The 'branches/' directory (see Chapter 1 [branches], page 1) oranizes parallel development lines to 'trunk/' directory. The 'branches/' directory is used to set points in time where development lines are devided one from another taking separte and idependent lives that share a common past from the point they were devided on. The 'branches/' directory is mainly used to perform quality assurance tasks related to CentOS corporate visual identity.

The 'tags/' directory (see Chapter 2 [tags], page 2) organizes parallel frozen lines to 'branches/' directory. The parallel frozen lines are immutable, nothing change inside them once they has been created. The 'tags/' directory is mainly used to publish final releases of CentOS corporate visual identity.

The CentOS Artwork Repository layout is firmly grounded on a Subversion base. Subversion (http://subversion.tigris.org) is a version control system, which allows you to keep old versions of files and directories (usually source code), keep a log of who, when, and why changes occurred, etc., like CVS, RCS or SCCS. Subversion keeps a single copy of the master sources. This copy is called the source "repository"; it contains all the information to permit extracting previous versions of those files at any time.

### 3.54.2.2 Repository name convenctions

Repository name convenctions help us to maintain consistency of names inside the repository.

Repository name convenctions are applied to files and directories inside the repository layout. As convenction, inside the repository layout, file names are all written in lowercase ('01-welcome.png', 'splash.png', 'anaconda\_header.png', etc.) and directory names are all written capitalized (e.g., 'Identity', 'Themes', 'Motifs', 'TreeFlower', etc.).

Repository name convenctions are implemented inside the cli\_getRepoName function of 'centos-art.sh' script. With cli\_getRepoName function we reduce the amount of commands and convenctions to remember, concentrating them in just one single place to look for fixes and improvements.

### 3.54.2.3 Repository work flow

Repository work flow describes the steps and time intervals used to produce CentOS corporate visual identity inside CentOS Artwork Repository.

To illustrate repository work flow let's consider themes' development cycle.

Initially, we start working themes on their trunk development line (e.g., 'trunk/Identity/Themes/Motifs/TreeFlower/'), here we organize information that cannot be produced automatically (i.e., background images, concepts, color information, screenshots, etc.).

Later, when theme trunk development line is considered "ready" for implementation (e.g., all required backgrounds have been designed), we create a branch for it (e.g., 'branches/Identity/Themes/Motifs/TreeFlower/1/'). Once the branch has been created, we forget that branch and continue working the trunk development line while others (e.g., an artwork quality assurance team) test the new branch for tunning it up.

Once the branch has been tunned up, and considered "ready" for release, it is freezed under 'tags/' directory (e.g., 'tags/Identity/Themes/Motifs/TreeFower/1.0/') for packagers,

webmasters, promoters, and anyone who needs images from that CentOS theme the tag was created for.

Both branches and tags, inside CentOS Artwork Repository, use numerical values to identify themselves under the same location. Branches start at one (i.e., '1') and increment one unit for each branch created from the same trunk development line. Tags start at zero (i.e., '0') and increment one unit for each tag created from the same branch development line.

**Convenction** Do not freeze trunk development lines using tags directly. If you think you need to freeze a trunk development line, create a branch for it and then freeze that branch instead.

The trunk development line may introduce problems we cannot see immediatly. Certainly, the high changable nature of trunk development line complicates finding and fixing such problems. On the other hand, the branched development lines provide a more predictable area where only fixes/corrections to current content are committed up to repository.

If others find and fix bugs inside the branched development line, we could merge such changes/experiences back to trunk development line (not visversa) in order for future branches, created from trunk, to benefit.

Time intervals used to create branches and tags may vary, just as different needs may arrive. For example, consider the release schema of CentOS distribution: one major release every 2 years, security updates every 6 months, support for 7 years long. Each time a CentOS distribution is released, specially if it is a major release, there is a theme need in order to cover CentOS distribution artwork requirements. At this point, is where CentOS Artwork Repository comes up to scene.

Before releasing a new major release of CentOS distribution we create a branch for one of several theme development lines available inside the CentOS Artwork Repository, perform quality assurance on it, and later, freeze that branch using tags. Once a the theme branch has been frozen (under 'tags/' directory), CentOS Packagers (the persons whom build CentOS distribution) can use that frozen branch as source location to fulfill CentOS distribution artwork needs. The same applies to CentOS Webmasters (the persons whom build CentOS websites), and any other visual manifestation required by the project.

### 3.54.2.4 Parallel directories

Inside CentOS Artwork Repository, parallel directories are simple directory entries built from a common parent directory and placed in a location different to that, the common parent directory is placed on. Parallel directories are useful to create branches, tags, translations, documentation, pre-rendering configuration script, and similar directory structures.

Parallel directories take their structure from one unique parent directory. Inside CentOS Artwork Repository, this unique parent directory is under 'trunk/Identity' location. The 'trunk/Identity' location must be considered the reference for whatever information you plan to create inside the repository.

In some circumstances, parallel directories may be created removing uncommon information from their paths. Uncommon path information refers to those directory levels in the path which are not common for other parallel directories. For example, when rendering 'trunk/Identity/Themes/Motifs/TreeFlower/Distro' directory structure, the 'centos-art.sh' script removes the 'Motifs/TreeFlower/' directory levels from path, in order to build the parallel directory used to retrived translations, and pre-rendering configuration scripts required by render functionality.

Another example of parallel directory is the documentation structure created by manual functionality. This time, 'centos-art.sh' script uses parallel directory information with uncommon directory levels to build the documentation entry required by Texinfo documentation system, inside the repository. Othertimes, parallel directories may add uncommon information to their paths. This is the case we use to create branches and tags. When we create branches and tags, a numerical identifier is added to parallel directory structure path. The place where the numerical identifier is set on is relevant to corporate visual identity structure and should be carefully considered where it will be.

When one parent directory changes, all their related parallel directories need to be changed too. This is required in order for parallel directories to retain their relation with the parent directory structure. In the other hand, parallel directories should never be modified under no reason but to satisfy the relation to their parent directory structure. Liberal change of parallel directories may suppresses the conceptual idea they were initially created for; and certainly, things may stop working the way they should do.

## 3.54.2.5 Syncronizing path information

Parallel directories are very useful to keep repository organized but introduce some complications. For instance, consider what would happen to functionalities like manual ('trunk Scripts Bash Functions Manual') that rely on parent directory structures to create documentation entries (using parallel directory structures) if one of those parent directory structures suddenly changes after the documentation entry has been already created for it?

In such cases, functionalities like manual may confuse themselves if path information is not updated to reflect the relation with its parent directory. Such functionalities work with parent directory structure as reference; if a parent directory changes, the functionalities dont't even note it because they work with the last parent directory structure available in the repository, no matter what it is.

In the specific case of documentation (the manual functionality), the problem mentioned above provokes that older parent directories, already documented, remain inside documentation directory structures as long as you get your hands into the documentation directory structure ('trunk/Manuals') and change what must be changed to match the new parent directory structure.

There is no immediate way for manual, and similar functionalities that use parent directories as reference, to know when and how directory movements take place inside the repository. Such information is available only when the file movement itself takes place inside the repository. So, is there, at the moment of moving files, when we need to syncronize parallel directories with their unique parent directory structure.

Warning There is not support for URL reference inside 'centos-art.sh' script. The 'centos-art.sh' script is designed to work with local files inside the working copy only.

As CentOS Artwork Repository is built over a version control system, file movements inside the repository are considered repository changes. In order for these repository changes to be versioned, we need to, firstly, add changes into the version control system, commit them, and later, perform movement actions using version control system commands. This configuration makes possible for everyone to know about changes details inside the repository; and if needed, revert or update them back to a previous revision.

Finally, once all path information has been corrected, it is time to take care of information inside the files. For instance, considere what would happen if you make a reference to a documentation node, and later the documentation node you refere to is deleted. That would make Texinfo to produce error messages at export time. So, the 'centos-art.sh' script needs to know when such changes happen, in a way they could be noted and handled without producing errors.

### 3.54.2.6 What is the right place to store it?

Occasionly, you may find that new corporate visual identity components need to be added to the repository. If that is your case, the first question you need to ask yourself, before start to create directories blindly all over, is: What is the right place to store it?

The CentOS Community different free support vains (see: http://wiki.centos.org/GettingHelp) are the best place to find answers to your question, but going there with hands empty is not good idea. It may give the impression you don't really care about. Instead, consider the following suggestions to find your own comprehension and so, make your propositions based on it.

When we are looking for the correct place to store new files, to bear in mind the corporate visual identity structure used inside the CentOS Artwork Repository (see Section 3.1 [trunk Identity], page 3) would be probaly the best advice we could offer, the rest is just matter of choosing appropriate names. To illustrate this desition process let's consider the 'trunk/Identity/Themes/Motifs/TreeFlower' directory as example. It is the trunk development line of *TreeFlower* artistic motif. Artistic motifs are considered part of themes, which in turn are considered part of CentOS corporate visual identity.

When building parent directory structures, you may find that reaching an acceptable location may take some time, and as it uses to happen most of time; once you've find it, that may be not a definite solution. There are many concepts that you need to play with, in order to find a result that match the conceptual idea you try to implement in the new directory location. To know which these concepts are, split the location in words and read its documentation entry from less specific to more specific.

For example, the 'trunk/Identity/Themes/Motifs/TreeFlower' location evolved through several months of contant work and there is no certain it won't change in the future, even it fixes quite well the concept we are trying to implement. The concepts used in 'trunk/Identity/Themes/Distro/Motifs/TreeFlower' location are described in the following commands, respectively:

```
centos-art manual --read=turnk/
centos-art manual --read=turnk/Identity/
centos-art manual --read=turnk/Identity/Themes/
centos-art manual --read=turnk/Identity/Themes/Motifs/
centos-art manual --read=turnk/Identity/Themes/Motifs/TreeFlower/
```

Other location concepts can be found similary as we did above, just change the location we used above by the one you are trying to know concepts for.

### 3.54.3 Usage

```
centos-art path --copy='SRC' --to='DST'
```

Copy 'SRC' to 'DST' and schedule 'DST' for addition (with history). In this command, 'SRC' and 'DST' are both working copy (WC) entries.

```
centos-art path --delete='SRC'
```

Delete 'DST'. In order for this command to work the file or directory you intend to delete should be under version control first. In this command, 'SRC' is a working copy (WC) entry.

### 3.54.4 See also

## 3.55 trunk/Scripts/Bash/cli/Functions/Render

The **render** functionality exists to produce both identity and translation files on different levels of information (i.e., different languages, release numbers, architectures, etc.).

## 3.55.1 Renderable identity directory structures

Renderable identity directory structures are the starting point of identity rendition. Whenever we want to render a component of CentOS corporate visual identity, we need to point 'centos-art.sh' to a renderable identity directory structure. If such renderable identity directory structure doesn't exist, then it is good time to create it.

Inside the working copy, one renderable identity directory structures represents one visual manifestation of CentOS corporate visual identity, or said differently, each visual manifestation of CentOS corporate visual identity should have one renderable identity directory structure.

Inside renderable identity directory structures, 'centos-art.sh' can render both image-based and text-based files. Specification of whether a renderable identity directory structure produces image-based or text-based content is a configuration action that takes place in the pre-rendition configuration script of that renderable identity directory structure.

Inside renderable identity directory structures, content production is organized in different configurations. A content production configuration is a unique combination of the components that make an identity directory structure renderable. One content production configuration does one thing only (e.g., to produce untranslated images), but it can be extended (e.g., adding translation files) to achieve different needs (e.g., to produce translated images).

## 3.55.1.1 Design template without translation

The design template without translation configuration is based on a renderable identity directory structure with an empty translation directory structure. In this configuration, one design template produces one untranslated file. Both design templates and final untranslated files share the same file name, but they differ one another in file-type and file-extension.

For example, to produce images without translations (there is no much use in producing text-based files without translations), consider the following configuration:

#### One renderable identity directory structure:

In this example we used 'Identity/Path/To/Dir' as the identity component we want to produce untranslated images for. Identity components can be either under 'trunk/' or 'branches/' directory structure.

The identity component (i.e., 'Identity/Path/To/Dir', in this case) is also the bond component we use to connect the identity directory structures with their respective auxiliar directories (i.e., translation directory structres and pre-rendition configuration structures). The bond component is the path convenction that 'centos-art.sh' uses to know where to look for related translations, configuration scripts and whatever auxiliar thing a renderable directory structure may need to have.

```
| The bond component
|------>|
trunk/Identity/Path/To/Dir <-- Renderable identity directory structure.
|-- Tpl <-- Design template directory.
| '-- file.svg <-- Design template file.
'-- Img <-- Directory used to store final files.
'-- file.png <-- Final image-based file produced from
design template file.
```

Inside design template directory, design template files are based on SVG (Scalable Vector Graphics) and use the extension .svg. Design template files can be organized

using several directory levels to create a simple but extensible configuration, specially if translated images are not required.

In order for SVG (Scalable Vector Graphics) files to be considered "design template" files, they should be placed under the design template directory and to have set a CENTOSARTWORK object id inside.

The CENTOSARTWORK word itself is a convenction name we use to define which object/design area, inside a design template, the 'centos-art.sh' script will use to export as PNG (Portable Network Graphic) image at rendition time. Whithout such object id specification, the 'centos-art.sh' script cannot know what object/design area you (as designer) want to export as PNG (Portable Network Graphic) image file.

Note At rendition time, the content of 'Img/' directory structure is produced by 'centos-art.sh' automatically.

When a renderable identity directory structure is configured to produce image-based content, 'centos-art.sh' produces PNG (Portable Network Graphics) files with the .png extension. Once the base image format has been produced, it is possible for 'centos-art.sh' to use it in order to automatically create other image formats that may be needed (— Removed(pxref:trunk Scripts Bash Functions Render Config) —).

Inside the working copy, you can find an example of "design template without translation" configuration at 'trunk/Identity/Models/'.

See Section 3.1 [trunk Identity], page 3, for more information.

#### One translation directory structure:

In order for an identity entry to be considered an identity renderable directory structure, it should have a translation entry. The content of the translation entry is relevant to determine how to process the identity renderable directory entry.

If the translation entry is empty (i.e., there is no file inside it), 'centos-art.sh' interprets the identity renderable directory structure as a "design templates without translation" configuration.

```
| The bond component
|----->|
trunk/Translations/Identity/Path/To/Dir
'-- (empty)
```

If the translation entry is not empty, 'centos-art.sh' can interpret the identity renderable directory structure as one of the following configurations: "design template with translation (one-to-one)" or "design template with translation (optimized)". Which one of these configurations is used depends on the value assigned to the matching list (MATCHINGLIST) variable in the pre-rendition configuration script of the renderable identity directory structure we are producing images for.

If the matching list variable is empty (as it is by default), then "design template with translation (one-to-one)" configuration is used. In this configuration it is required that both design templates and translation files have the same file names. This way, *one* translation files is applied to *one* design template, to produce *one* translated image.

If the matching list variable is not empty (because you redefine it in the pre-rendition configuration script), then "design template with translation (optimized)" configuration is used instead. In this configuration, design templates and translation files don't need to have the same names since such name relationship between them is specified in the matching list properly. — **Removed**(xref:trunk Translations) —, for more information.

#### One pre-rendition configuration script:

In order to make an identity directory structure renderable, a pre-rendition configuration script should exist for it. The pre-rendition configuration script specifies what type of rendition does 'centos-art.sh' will perform over the identity directory structure and how does it do that.

```
|----->|
trunk/Scripts/Bash/Functions/Render/Config/Identity/Path/To/Dir
'-- render.conf.sh
```

In this configuration the pre-rendition configuration script ('render.conf.sh') would look like the following:

```
function render_loadConfig {
    # Define rendition actions.
    ACTIONS[0]='BASE:renderImage'
```

}

Since translation directory structure is empty, 'centos-art.sh' assumes a "design template without translation" configuration to produce untranslated images.

To produce untranslated images, 'centos-art.sh' takes one design template and creates one temporal instance from it. Later, 'centos-art.sh' uses the temporal design template instance as source file to export the final untranslated image. The action of exporting images from SVG (Scalable Vector Graphics) to PNG (Portable Network Graphics) is possible thanks to Inkscape's command-line interface and the CENTOSARTWORK object id we previously set inside design templates.

```
centos-art.sh render --identity=trunk/Identity/Path/To/Dir
```

0 | Execute centos-art.sh on renderable identity directory structure.

trunk/Identity/Path/To/Dir/Tpl/file.svg

-----

1 | Create instance from design template.

/tmp/centos-art.sh-a07e824a-5953-4c21-90ae-f5e8e9781f5f-file.svg

2 | Render untranslated image from design template instance.

--v------

trunk/Identity/NewDir/Img/file.png

-----

3 | Remove design template instance.

Finally, when the untranslated image has been created, the temporal design template instance is removed. At this point, 'centos-art.sh' takes the next design template and repeats the whole production flow once again (design template by design template), until all design templates be processed.

— Removed (xref:trunk Scripts Bash Functions Render Config) —, for more information.

| The bond component

## 3.55.1.2 Design template with translation (one-to-one)

Producing untranslated images is fine in many cases, but not always. Sometimes it is required to produce images in different languages and that is something that untranslated image production cannot achieve. However, if we fill its empty translation entry with translation files (one for each design template) we extend the production flow from untranslated image production to translated image production.

In order for 'centos-art.sh' to produce images correctly, each design template should have one translation file and each translation file should have one design template. Otherwise, if there is a missing design template or a missing translation file, 'centos-art.sh' will not produce the final image related to the missing component.

In order for 'centos-art.sh' to know which is the relation between translation files and design templates the translation directory structure is taken as reference. For example, the 'trunk/Translations/Identity/Path/To/Dir/file.sed' translation file does match 'trunk/Identity/Path/To/Dir/Tpl/file.svg' design template, but it doesn't match 'trunk/Identity/Path/To/Dir/File.svg' or 'trunk/Identity/Path/To/Dir/File.svg' design templates.

The pre-rendition configuration script used to produce untranslated images is the same we use to produce translated images. There is no need to modify it. So, as we are using the same pre-rendition configuration script, we can say that translated image production is somehow an extended/improved version of untranslated image production.

Note If we use no translation file in the translation entry (i.e., an empty directory), 'centos-art.sh' assumes the untranslated image production. If we fill the translation entry with translation files, 'centos-art.sh' assumes the translated image production.

To produce final images, 'centos-art.sh' applies one translation file to one design template and produce a translated design template instance. Later, 'centos-art.sh' uses the translated template instance to produce the translated image. Finally, when the translated image has been produced, 'centos-art.sh' removes the translated design template instance. This production flow is repeated for each translation file available in the translatio entry.

centos-art.sh render --identity=trunk/Identity/Path/To/Dir \_\_\_\_\_ 0 | Execute centos-art.sh on directory structure. trunk/Translations/Identity/Path/To/Dir/file.sed \_\_\_\_\_ 1 | Apply translation to design template. --v-----trunk/Identity/Path/To/Dir/Tpl/file.svg \_\_\_\_\_ 2 | Create design template instance. --v------/tmp/centos-art.sh-a07e824a-5953-4c21-90ae-f5e8e9781f5f-file.svg \_\_\_\_\_ 3 | Render PNG image from template instance. \_\_\_\_\_\_ trunk/Identity/NewDir/Img/file.png 4 | Remove design template instance.

## 3.55.1.3 Design template with translation (optimized)

Producing translated images satisfies almost all our production images needs, but there is still a pitfall in them. In order to produce translated images as in the "one-to-one" configuration describes previously, it is required that one translation file has one design template. That's useful in many cases, but what would happen if we need to apply many different translation files to the same design template? Should we have to duplicate the same design template file for each translation file, in order to satisfy the "one-to-one" relation? What if we need to assign translation files to design templates arbitrarily?

Certenly, that's something the "one-to-one" configuration cannot handle. So, that's why we had to "optimize" it. The optimized configuration consists on using a matching list (*MATCH-INGLIST*) variable that specifies the relationship between translation files and design templates in an arbitrary way. Using such matching list between translation files and design templates let us use as many assignment combinations as translation files and design templates we are working with.

The *MATCHINGLIST* variable is set in the pre-rendition configuration script of the component we want to produce images for. By default, the *MATCHINGLIST* variable is empty which means no matching list is used. Otherwise, if *MATCHINGLIST* variable has a value different to empty value then, 'centos-art.sh' interprets the matching list in order to know how translation files are applied to design templates.

For example, consider the following configuration:

#### One entry under 'trunk/Identity/':

In this configuration we want to produce three images using a paragraph-based style, controlled by 'paragraph.svg' design template; and one image using a list-based style, controlled by 'list.svg' design template.

```
trunk/Identity/Path/To/Dir
|-- Tpl
| |-- paragraph.svg
| '-- list.svg
'-- Img
|-- 01-welcome.png
|-- 02-donate.png
|-- 03-docs.png
'-- 04-support.png
```

#### One entry under 'trunk/Translations/':

In order to produce translated images we need to have one translation file for each translated image we want to produce. Notice how translation names do match final image file names, but how translation names do not match design template names. When we use matching list there is no need for translation files to match the names of design templates, such name relation is set inside the matching list itself.

#### trunk/Translations/Identity/Path/To/Dir

- |-- 01-welcome.sed
- |-- 02-donate.sed
- |-- 03-docs.sed
- '-- 04-support.sed

#### One entry under 'trunk/trunk/Scripts/Bash/Functions/Render/Config/':

In order to produce different translated images using specific design templates, we need to specify the relation between translation files and design templates in a way that 'centos-art.sh' could know exactly what translation file to apply to what design template. This relation between translation files and design templates

is set using the matching list *MATCHINGLIST* variable inside the pre-rendition configuration script of the component we want to produce images for.

```
trunk/Scripts/Bash/Functions/Render/Config/Identity/Path/To/Dir
'-- render.conf.sh
```

In this configuration the pre-rendition configuration script ('render.conf.sh') would look like the following:

```
function render_loadConfig {
```

```
# Define rendition actions.
ACTIONS[0]='BASE:renderImage'
# Define matching list.
MATCHINGLIST="\
paragraph.svg:\
01-welcome.sed\
02-donate.sed\
02-donate.sed\
04-support.sed
list.svg:\
03-docs.sed
"
```

```
}
```

As result, 'centos-art.sh' will produce '01-welcome.png', '02-donate.png' and '04-support.png' using the paragraph-based design template, but '03-docs.png' using the list-based design template.

# 3.55.1.4 Design template with translation (optimized+flexibility)

In the production models we've seen so far, there are design templates to produce untranslated images and translation files which combiend with design templates produce translated images. That may seems like all our needs are covered, doesn't it? Well, it *almost* does.

Generally, we use design templates to define how final images will look like. Generally, each renderable directory structure has one 'Tpl/' directory where we organize design templates for that identity component. So, we can say that there is only one unique design template definition for each identity component; or what is the same, said differently, identity components can be produced in one way only, the way its own design template directory specifies. This is not enough for theme production. It is a limitation, indeed.

Initially, to create one theme, we created one renderable directory structure for each theme component. When we found ourselves with many themes, and components inside them, it was obvious that the same design model was duplicated inside each theme. As design models were independently one another, if we changed one theme's design model, that change was useless to other themes. So, in order to reuse design model changes, we unified design models into one common directory structure.

With design models unified in a common structure, another problem rose up. As design models also had the visual style of theme components, there was no difference between themes, so there was no apparent need to have an independent theme directory structure for each different theme. So, it was also needed to separate visual styles from design models.

At this point there are two independent worklines: one directory structure to store design models (the final image characteristics [i.e., dimensions, translation markers, etc.]) and one directory structure to store visual styles (the final image visual style [i.e., the image look and feel]). So, it is possible to handle both different design models and different visual styles independtly one another and later create combinations among them using 'centos-art.sh'.

For example, consider the following configuration:

# One entry under 'trunk/Identity/Themes/Models/':

The design model entry exists to organize design model files (similar to design templates). Both design models and design templates are very similar; they both should have the CENTOSARTWORK export id present to identify the exportation area, translation marks, etc. However, design models do use dynamic backgrounds inclusion while design templates don't.

```
THEMEMODEL | | The bond component
|<----| |----->|
trunk/Identity/Themes/Models/Default/Distro/Anaconda/Progress/
|-- paragraph.svg
'-- list.svg
```

Inisde design models, dynamic backgrounds are required in order for different artistic motifs to reuse common design models. Firstly, in order to create dynamic backgrounds inside design models, we import a bitmap to cover design model's background and later, update design model's path information to replace fixed values to dynamic values.

### One entry under 'trunk/Identity/Themes/Motifs/':

The artistic motif entry defines the visual style we want to produce images for, only. Final images (i.e., those built from combining both design models and artistic motif backrounds) are not stored here, but under branches directory structure. In the artistic motif entry, we only define those images that cannot be produced automatically by 'centos-art.sh' (e.g., Backgrounds, Color information, Screenshots, etc.).

```
Artistic motif name | | Artistic motif backgrounds
                           |<---->|
trunk/Identity/Themes/Motifs/TreeFlower/Backgrounds/
|-- Img
   |-- Png
      |-- 510x300.png
   '-- 510x300-final.png
   '-- Jpg
|-- 510x300.jpg
'-- 510x300-final.jpg
|-- Tpl
 '-- 510x300.svg
'-- Xcf
   '-- 510x300.xcf
```

#### One entry under 'trunk/Translations/':

The translation entry specifies, by means of translation files, the language-specific information we want to produce image for. When we create the translation entry we don't use the name of neither design model nor artistic motif, just the design model component we want to produce images for.

| The bond component |----->| trunk/Translations/Identity/Themes/Distro/Anaconda/Progress/ '-- 5

#### One entry under 'trunk/Scripts/Bash/Functions/Render/Config/':

There is one pre-rendition configuration script for each theme component. So, each time a theme component is rendered, its pre-rendition configuration script is evaluated to teach 'centos-art.sh' how to render the component.

trunk/Scripts/Bash/Functions/Render/Config/Identity/Themes/Distro/Anaconda/Prog '-- render.conf.sh

In this configuration the pre-rendition configuration script ('render.conf.sh') would look like the following:

function render\_loadConfig {

```
# Define rendition actions.
ACTIONS[0]='BASE:renderImage'
# Define matching list.
MATCHINGLIST="\
paragraph.svg:\
01-welcome.sed\
02-donate.sed
list.svg:\
03-docs.sed
"
# Deifne theme model.
THEMEMODEL='Default'
```

The production flow of "optimize+flexibility" configuration...

}

## 3.55.2 Renderable translation directory structures

Translation directory structures are auxiliar structures of renderable identity directory structures. There is one translation directory structure for each renderable identity directory structure. Inside translation directory structures we organize translation files used by renderable identity directory structures that produce translated images. Renderable identity directory structures that produce untranslated images don't use translation files, but they do use a translation directory structure, an empty translation directory structure, to be precise.

In order to aliviate production of translation file, we made translation directory structures renderable adding a template ('Tpl/') directory structure to handle common content inside translation files. This way, we work on translation templates and later use 'centos-art.sh' to produce specific translation files (based on translation templates) for different information (e.g., languages, release numbers, architectures, etc.).

If for some reason, translation files get far from translation templates and translation templates become incovenient to produce such translation files then, care should be taken to avoid replacing the content of translation files with the content of translation templates when 'centos-art.sh' is executed to produce translation files from translation templates.

Inside renderable translation directory structures, 'centos-art.sh' can produce text-based files only.

## 3.55.3 Copying renderable directory structures

A renderable layout is formed by design models, design images, pre-rendition configuration scripts and translations files. This way, when we say to duplicate rendition stuff we are saying to duplicate these four directory structures (i.e., design models, design images, pre-rendition configuration scripts, and related translations files).

When we duplicate directories, inside 'trunk/Identity' directory structure, we need to be aware of renderable layout described above and the source location used to perform the duplication action. The source location is relevant to centos-art.sh script in order to determine the required auxiliar information inside directory structures that need to be copied too (otherwise we may end up with orphan directory structures unable to be rendered, due the absence of required information).

In order for a renderable directory structure to be valid, the new directory structure copied should match the following conditions:

- 1. To have a unique directory structure under 'trunk/Identity', organized by any one of the above organizational designs above.
- 2. To have a unique directory structure under 'trunk/Translations' to store translation files.
- To have a unique directory structure under 'trunk/Scripts/Bash/Functions/Render/Config' to set pre-rendition configuration script.

As convenction, the render\_doCopy function uses 'trunk/Identity' directory structure as source location. Once the 'trunk/Identity' directory structure has been specified and verified, the related path information is built from it and copied automatically to the new location specified by FLAG\_TO variable.

Design templates + No translation:

Command: - centos-art render -copy=trunk/Identity/Path/To/Dir to=trunk/Identity/NewPath/To/Dir

Sources: - trunk/Identity/Path/To/Dir - trunk/Translations/Identity/Path/To/Dir - trunk/Scripts/Bash/Functions/Render/Config/Identity/Path/To/Dir

Targets: - trunk/Identity/NewPath/To/Dir - trunk/Translations/Identity/NewPath/To/Dir - trunk/Scripts/Bash/Functions/Render/Config/Identity/NewPath/To/Dir

Renderable layout 2:

Command: - centos-art render -copy=trunk/Identity/Themes/Motifs/TreeFlower \ -to=trunk/Identity/Themes/Motifs/NewPath/To/Dir

Sources: - trunk/Identity/Themes/Motifs/TreeFlower - trunk/Translations/Identity/Themes

trunk/Translations/Identity/Themes/Motifs/TreeFlower - trunk/Scripts/Bash/Functions/Render/Config/Identity/Themes/Motifs/TreeFlower

Targets: - trunk/Identity/Themes/Motifs/NewPath/To/Dir - trunk/Translations/Identity/Themes - trunk/Translations/Identity/Themes/Motifs/NewPath/To/Dir - trunk/Scripts/Bash/Functions/Render/Config/Identity/Themes/Motifs/NewPath/To/Dir

Notice that design models are not included in source or target locations. This is intentional. In "Renderable layout 2", design models live by their own, they just exist, they are there, available for any artistic motif to use. By default 'Themes/Models/Default' design model directory structure is used, but other design models directory structures (under Themes/Models/) can be created and used changing the value of THEMEMODEL variable inside the pre-rendition configuration script of the artistic motif source location you want to produce.

Notice how translations and pre-rendition configuration scripts may both be equal in source and target. This is because such structures are common to all artistic motifs (the default values to use when no specific values are provided).

- The common directory structures are not copied or deleted. We cannot copy a directory structure to itself.

- The common directory structures represent the default value to use when no specific translations and/or pre-rendition configuration script are provided inside source location.

- The specific directory structures, if present, are both copiable and removable. This is, when you perform a copy or delete action from source, that source specific auxiliar directories are transfered in the copy action to a new location (that specified by FLAG\_TO variable).

- When translations and/or pre-rendition configuration scripts are found inside the source directory structure, the centos-art.sh script loads common auxiliar directories first and later specific auxiliar directories. This way, identity rendition of source locations can be customized idividually over the base of common default values.

- The specific auxiliar directories are optional.

- The common auxiliar directories should be present always. This is, in order to provide the information required by render functionality (i.e., to make it functional in the more basic level of its existence).

Notice how the duplication process is done from 'trunk/Identity' on, not the oposite. If you try to duplicate a translation structure (or similar auxiliar directory structures like pre-rendition configuration scripts), the 'trunk/Identity' for that translation is not created. This limitation is impossed by the fact that many 'trunk/Identity' directory structures may reuse/share the same translation directory structure. We cannot delete one translation (or similar) directory structures while a related 'trunk/Identity/' directory structure is still in need of it.

The 'render\_doCopy' functionality does duplicate directory structures directly involved in rendition process only. Once such directories have been duplicated, the functionality stops thereat.

### 3.55.4 Usage

• ...

## 3.55.5 See also

# 3.56 trunk/Scripts/Bash/cli/Functions/Render/Config

# 3.56.1 Goals

The 'trunk/Scripts/Bash/Config' directory exists to oraganize pre-rendering configuration scripts.

# 3.56.2 Description

Pre-rendering configuration scripts let you customize the way centos-art.sh script renders identity and translation repository entries. Pre-rendering configuration scripts are 'render.conf.sh' files with render\_loadConfig function definition inside.

There is one 'render.conf.sh' file for each pre-rendering configuration entry. Pre-rendering configuration entries can be based both on identity and translation repository entires. Pre-rendering configuration entries are required for each identity entry, but not for translation entries.

# 3.56.2.1 The 'render.conf.sh' identity model

Inside CentOS Artwork Repository, we consider identity entries to all directories under 'trunk/Identity' directory. Identity entries can be image-based or text-based. When you render image-based identity entries you need to use image-based pre-rendering configuration scripts. Likewise, when you render text-based identity entries you need to use text-based pre-rendering configuration scripts.

Inside identity pre-rendering configuration scripts, image-based pre-rendering configuration scripts look like the following:

#!/bin/bash

```
function render_loadConfig {
    # Define rendering actions.
    ACTIONS[0]='BASE:renderImage'
    ACTIONS[1]='POST:renderFormats: tif xpm pdf ppm'
```

## }

Inside identity pre-rendering configuration scripts, text-based pre-rendering configuration scripts look like the following:

#!/bin/bash

```
function render_loadConfig {
    # Define rendering actions.
    ACTIONS[0]='BASE:renderText'
```

ACTIONS[1]='POST:formatText: --width=70 --uniform-spacing'

}

When using identity pre-rendering configuration scripts, you can extend both image-based and text-based pre-rendering configuration scripts using image-based and text-based postrendering actions, respectively.

# 3.56.2.2 The 'render.conf.sh' translation model

Translation pre-rendering configuration scripts take precedence before default translation rendering action. Translation pre-rendering actions are useful when default translation rendering action do not fit itself to translation entry rendering requirements.

# 3.56.2.3 The 'render.conf.sh' rendering actions

Inside both image-based and text-based identity pre-rendering configuration scripts, we use the 'ACTIONS' array variable to define the way centos-art.sh script performs identity rendering. Identity rendering is organized by one 'BASE' action, and optional 'POST' and 'LAST' rendering actions.

The 'BASE' action specifies what kind of rendering does the centos-art.sh script will perform with the files related to the pre-rendering configuration script. The 'BASE' action is required. Possible values to 'BASE' action are either 'renderImage' or 'renderText' only.

To specify the 'BASE' action you need to set the 'BASE:' string followed by one of the possible values. For example, if you want to render images, consider the following definition of 'BASE' action:

```
ACTIONS[0]='BASE:renderImage'
```

Only one 'BASE' action must be specified. If more than one 'BASE' action is specified, the last one is used. If no 'BASE' action is specified at all, an error is triggered and the centos-art.sh script ends its execution.

The 'POST' action specifies which action to apply for each file rendered (at the rendering time). This action is optional. You can set many different 'POST' actions to apply many different actions over the same already rendered file. Possible values to 'POST' action are 'renderFormats', 'renderSyslinux', 'renderGrub', etc.

To specify the 'POST' action, you need to use set the 'POST:' followed by the function name of the action you want to perform. The exact form depends on your needs. For example, consider the following example to produce 'xpm', 'jpg', and 'tif' images, based on already rendered 'png' image, and also organize the produced files in directories named as their own extensions:

```
ACTIONS[0]='BASE:renderImage'
ACTIONS[1]='POST:renderFormats: xpm jpg tif'
ACTIONS[2]='POST:groupByFormat: png xpm jpg tif'
```

In the previous example, file organization takes place at the moment of rendering, just after producing the 'png' base file and before going to the next file in the list of files to render. If you don't want to organized the produced files in directories named as their own extensions, just remove the 'POST:groupByFormat' action line:

ACTIONS[0]='BASE:renderImage'

ACTIONS[1]='POST:renderFormats: xpm jpg tif'

The 'LAST' action specifies which actions to apply once the last file in the list of files to process has been rendered. The 'LAST' action is optional. Possible values for 'LAST' actions may be 'groupByFormat', 'renderGdmTgz', etc.

**Note** — **Removed**(xref:trunk Scripts Bash Functions Render) —, to know more about possible values for 'BASE', 'POST' and 'LAST' action definitions.

To specify the 'LAST' action, you need to set the 'LAST:' string followed by the function name of the action you want to perform. For example, consider the following example if you want to render all files first and organize them later:

```
ACTIONS[0]='BASE:renderImage'
ACTIONS[1]='POST:renderFormats: xpm jpg tif'
ACTIONS[2]='LAST:groupByformat: png xpm jpg tif'
```

## 3.56.3 Usage

Use the following commands to administer both identity and translation pre-rendering configuration scripts:

```
'centos-art config --create='path/to/dir/'
```

Use this command to create 'path/to/dir' related pre-rendering configuration script.

```
'centos-art config --edit='path/to/dir/'
```

Use this command to edit 'path/to/dir' related pre-rendering configuration script.

```
'centos-art config --read='path/to/dir/'
```

Use this command to read 'path/to/dir' related pre-rendering configuration script.

### 'centos-art config --remove='path/to/dir/'

Use this command to remove 'path/to/dir' related pre-rendering configuration script.

In the commands above, 'path/to/dir' refers to one renderable directory path under 'trunk/Identity' or 'trunk/Translations' structures only.

## 3.56.4 See also

# 3.57 trunk/Scripts/Bash/cli/Functions/Shell

# 3.57.1 Goals

This section exists to organize files related to shell functionality of 'centos-art.sh' script.

# 3.57.2 Description

The shell functionality of 'centos-art.sh' script helps you to maintain bash scripts inside repository. For example, suppose you've created many functionalities for 'centos-art.sh' script, and you want to use a common copyright and license note for consistency in all your script files. If you have a bunch of files, doing this one by one wouldn't be a big deal. In contrast, if the amount of files grows, updating the copyright and license note for all of them would be a task rather tedious. The shell functionality exists to solve maintainance tasks just as the one previously mentioned.

When you use **shell** functionality to update copyright inside script files, it is required that your script files contain (at least) the following top commentary structure:

```
1| #!/bin/bash
21 #
3| # doSomething.sh -- The function description goes here.
4| #
5| # Copyright
6| #
7| # ...
8| #
      _____
9 | # --
10| # $Id$
11| # ------
12
13 | function doSomething {
14|
15| }
```

Figure 3.4: The functions script base comment structure

Relevant lines in the above structure are lines from 5 to 9. Everything else in the file is left immutable.

When you are updating copyright through shell functionality, the 'centos-art.sh' script replaces everything in-between line 5 — the first one matching '^# Copyright .+\$' string— and line 9—the first long dash separator matching '^# -+\$'— with the content of copyright template instance.

**Caution** Be sure to add the long dash separator that matches '**#** -+\$' regular expression *before* the function definition. Otherwise, if the 'Copyright' line is present but no long dash separator exists, 'centos-art.sh' will remove anything in-between the 'Copyright' line and the end of file. This way you may lost your function definitions entirely.

The copyright template instance is created from one copyright template stored in the 'Config/tpl\_forCopyright.sed' file. The template instance is created once, and later removed when no longer needed. At this moment, when template instance is created, the 'centos-art.sh' script takes advantage of automation in order to set copyright full name and date dynamically.

When you use **shell** functionality to update copyright, the first thing '**shell**' functionality does is requesting copyright information to user, and later, if values were left empty (i.e., no value was typed before pressing  $\langle \overline{\text{RET}} \rangle$  key), the '**shell**' functionality uses its own default values.

When **shell** functionality uses its own default values, the final copyright note looks like the following:

```
1| #!/bin/bash
21 #
3| # doSomthing.sh -- The function description goes here.
4 #
5| # Copyright (C) 2003, 2010 The CentOS Project
6| #
7| # This program is free software; you can redistribute it and/or modify
8| # it under the terms of the GNU General Public License as published by
9| # the Free Software Foundation; either version 2 of the License, or
10| # (at your option) any later version.
11| #
12 | # This program is distributed in the hope that it will be useful, but
13| # WITHOUT ANY WARRANTY; without even the implied warranty of
14 | # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
15| # General Public License for more details.
16| #
17| # You should have received a copy of the GNU General Public License
18| # along with this program; if not, write to the Free Software
19| # Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
201 # USA.
21 #
22| # -----
23| # $Id$
24| # -----
25|
26| function doSomething {
271
28| }
```

#### Figure 3.5: The function script comment example

Relevant lines in the above structure are lines from 5 to 22. Pay attention how the copyright line was built, and how the license was added into the top comment where previously was just three dots. Everything else in the file was left immutable.

To change copyright information (i.e., full name or year information), run the **shell** functionality over the root directory containing the script files you want to update copyright in and enter the appropriate information when it be requested. You can run the **shell** functionality as many times as you need to.

To change copyright license (i.e., the text in-between lines 7 and 20), you need to edit the 'Config/tpl\_forCopyright.sed' file, set the appropriate information, and run the shell functionality once again for changes to take effect over the files you specify.

Important The 'centos-art.sh' script is released as:

GNU GENERAL PUBLIC LICENSE Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA. Do not change the license information under which 'centos-art.sh' script is released. Instead, if you think a different license must be used, please share your reasons at CentOS Developers mailing list.

# 3.57.3 Usage

When you provide '--filter='regex' argument, the list of files to process is reduced as specified in 'regex' regular expression. Inside 'centos-art.sh' script, the 'regex' regular expression is used in combination with find command to look for files matching the regular expression path pattern.

Warning In order for 'regex' regular expression to match a file, the 'regex' regular expression must match the whole file path not just the file name.

For example, if you want to match all 'render.conf.sh' files inside 'path/to/dir', use the .+/render.conf regular expression. Later, 'centos-art.sh' script uses this value inside ^\$REGEX\.sh\$ expression in order to build the final regular expression (i.e., ^.+/render.conf\.sh\$) that is evaluated against available file paths inside the list of files to process.

Exceptionally, when you provide '--filter='regex' in the way that 'regex', appended to 'path/to/dir/' (i.e. 'path/to/dir/regex'), matches a regular file; the 'centos-art.sh' script uses the file matching as only file in the list of files to process.

# 3.57.4 See also

# 3.58 trunk/Scripts/Bash/cli/Functions/Svg

# 3.58.1 Goals

This section exists to organize files related to svg functionality of 'centos-art.sh' script.

# 3.58.2 Description

The svg functionality of 'centos-art.sh' script helps you to maintain scalable vector graphics (SVG) inside repository. For example, suppose you've been working in CentOS default design models under 'trunk/Identity/Themes/Models/', and you want to set common metadata to all of them, and later remove all unused SVG definitions from '\*.svg' files. Doing so file by file may be a tedious task, so the 'centos-art.sh' script provides the svg functionality to aid you maintain such actions.

# 3.58.2.1 Metadata maintainance

The metadata used is defined by Inkscape 0.46 using the SVG standard markup. The 'centos-art.sh' script replaces everything in-between <metadata and </metadata> tags with a predefined metadata template we've set for this purpose.

The metadata template was created using the metadata information of a file which, using Inkscape 0.46, all metadata fields were set. This created a complete markup representation of how SVG metadata would look like. Later, we replaced every single static value with a translation marker in the form '=SOMETEXT=', where SOMETEXT is the name of its main opening tag. Later, we transform the metadata template into a sed replacement set of commads escaping new lines at the end of each line.

With metadata template in place, the 'centos-art.sh' script uses it to create a metadata template instance for the file being processed currently. The metadata template instance contains the metadata portion of sed replacement commands with translation markers already traduced. In this action, instance creation, is where we take advantage of automation and generate metadata values like title, date, keywords, source, identifier, and relation dynamically, based on the file path 'centos-art.sh' script is currently creating metadata information for.

With metadata template instance in place, the 'centos-art.sh' script uses it to replace real values inside all '.svg' files under the current location you're running the 'centos-art.sh' script on. Default behaviour is to ask user to enter each metadatum required, one by one. If user leaves metadatum empty, by pressing (RET) key, 'centos-art.sh' uses its default value.

The 'centos-art.sh' script modifies the following metadata:

- 'Title' Name by which this document is formally known. If no value is set here, 'centos-art.sh' script uses the file name as title.
- 'Date' Date associated with the creation of this document (YYYY-MM-DD). If no value is set here, 'centos-art.sh' script uses the current date information as in date +%Y-%m-%d.
- 'Creator' Name of entity primarily responsible for making the content of this document. If no value is set here, 'centos-art.sh' script uses the string 'The CentOS Project'.
- 'Rights' Name of entity with rights to the intellectual Property of this document. If no value is set here, 'centos-art.sh' script uses the string 'The CentOS Project'.

#### 'Publisher'

Name of entity responsible for making this document available. If no value is set here, 'centos-art.sh' script uses the string 'The CentOS Project'.

#### 'Identifier'

Unique URI to reference this document. If no value is set here, 'centos-art.sh' script uses the current file path to build the related url that points to current file location inside repository central server.

'Source' Unique URI to reference the source of this document. If no value is set here, 'centos-art.sh' script uses current file path to build the related url that points to current file location inside repository central server.

#### 'Relation'

Unique URI to a related document. If no value is set here, 'centos-art.sh' script uses current file path to build the related url that points to current file location inside repository central server.

#### 'Language'

Two-letter language tag with optional subtags for the language of this document. (e.g. 'en-GB'). If no value is set here, 'centos-art.sh' script uses the current locale information as in cli\_getCurrentLocale function.

#### 'Keywords'

The topic of this document as comma-separated key words, prhases, or classifications. If no value is set here, 'centos-art.sh' script uses file path to build

#### 'Coverage'

Extent or scope of this document. If no value is set here, 'centos-art.sh' script uses the string 'The CentOS Project'.

#### 'Description'

Description about the document. If no value is set here, 'centos-art.sh' script uses uses empty value as default.

'Contributors'

People that contributes in the creation/maintainance of the document. If no value is set here, 'centos-art.sh' script uses uses empty value as default.

The 'License' metadatum is not set as a choise, by now. It is fixed Creative Common Attribution Share-Alike 3.0 License. This is done in order to grant license consistency among all SVG files we manage inside CentOS Artwork Repository.

# 3.58.2.2 Unused definitions

Many of the no-longer-used gradients, patterns, and markers (more precisely, those which you edited manually) remain in the corresponding palettes and can be reused for new objects. However if you want to optimize your document, use the 'Vacuum Defs' command in 'File' menu. It will remove any gradients, patterns, or markers which are not used by anything in the document, making the file smaller.

If you have one or two couple of files, removing unused definitions using the graphical interface may be enough to you. In contrast, if you have dozens or even houndreds of scalable vector graphics files to maintain it is not a fun task to use the graphical interface to remove unused definitions editing those files one by one.

To remove unused definitions from several scalable vector graphics files, the 'centos-art.sh' script uses Inkscape command-line interface, specifically with the '--vaccum-defs' option.

# 3.58.3 Usage

Use these commands to remove unused definitions inside '.svg' files under 'path/to/dir' directory.

When you provide '--filter='regex' argument, the list of files to process is reduced as specified in 'regex' regular expression. Inside 'centos-art.sh' script, the 'regex' regular expression is used in combination with find command to look for files matching the regular expression path pattern.

Warning In order for 'regex' regular expression to match a file, the 'regex' regular expression must match the whole file path not just the file name.

For example, if you want to match all 'summary.svg' files inside 'path/to/dir', use the .+/summary regular expression. Later, 'centos-art.sh' script uses this value inside ^\$REGEX\.svg\$ expression in order to build the final regular expression (i.e., ^.+/summary\.svg\$) that is evaluated against available file paths inside the list of files to process.

Exceptionally, when you provide '--filter='regex' in the way that 'regex', appended to 'path/to/dir/' (i.e. 'path/to/dir/regex'), matches a regular file; the 'centos-art.sh' script uses the file matching as only file in the list of files to process.

# 3.58.4 See also

# 3.59 trunk/Scripts/Bash/cli/Functions/Verify

## 3.59.1 Goals

This section exists to organize files related to 'centos-art.sh' script 'verify' functionality. The 'verify' functionality of 'centos-art.sh' script helps you to verify the workstation configuration you are planning to use as host for your working copy of CentOS Artwork Repository.

# 3.59.2 Description

The first time you download CentOS Artwork Repository you need to configure your workstation in order to use 'centos-art.sh' script. These preliminar configurations are based mainly on auxiliar RPM packages installation, symbolic links creations, and environment variables definitions. The 'verify' functionality of 'centos-art.sh' script guides you through this preliminar configuration process.

If this is the first time you run 'centos-art.sh' script, the appropriate way to use its 'verify' functionality is not using the 'centos-art.sh' script directly, but the absolute path to centos-art.sh script instead (i.e., '~/artwork/trunk/Scripts/Bash/centos-art.sh'). This is necessary because 'centos-art' symbolic link, under '~/bin/' directory, has not been created yet.

# 3.59.2.1 Packages

Installation of auxiliar RPM packages provides the software required to manipulate files inside the repository (e.g., image files, documentation files, translation files, script files, etc.). Most of RPM packages centos-art.sh script uses are shipped with CentOS distribution, and can be installed from CentOS base repository. The only exception is 'inkscape', the package we use to manipulate SVG files. The 'inkscape' package is not inside CentOS distribution so it needs to be installed from third party repositories.

**Note** Configuration of third party repositories inside CentOS distribution is described in CentOS wiki, specifically in the following URL: http://wiki.centos.org/AdditionalResources/Repositories

Before installing packages, the 'centos-art.sh' script uses sudo to request root privileges to execute yum installation functionality. If your user isn't defined as a privileged user—at least to run yum commands— inside '/etc/sudoers' configuration file, you will not be able to perform package installation tasks as set in 'centos-art.sh' script 'verify' functionality.

Setting sudo privileges to users is an administrative task you have to do by yourself. If you don't have experience with **sudo** command, please read its man page running the command: **man sudo**. This reading will be very useful, and with some practice, you will be able to configure your users to have **sudo** privileges.

## 3.59.2.2 Links

Creation of symbolic links helps us to alternate between different implementations of 'centos-art.sh' script-line (e.g., 'centos-art.sh', for Bash implementation; 'centos-art.py', for Python implementation; 'centos-art.pl', for Perl implementation; and so on for other implementations). The 'centos-art.sh' script-line definition takes place inside your personal binary ('~/bin/') directory in order to make the script implementation —the one that 'centos-art' links to— available to PATH environment variable.

Creation of symbolic links helps us to reuse components from repository working copy. For example, color information files maintained inside your working copy must never be duplicated inside program-specific configuration directories that uses them in your workstation (e.g., Gimp, Inkscape, etc.). Instead, a symbolic link must be created for each one of them, from program-specific configuration directories to files in the working copy. In this configuration, when someone commits changes to color information files up to central repository, they—the changes committed— will be immediatly available to your programs the next time you update your working copy —the place inside your workstation those color information files are stored—.

Creation of symbolic links helps us to make 'centos-art.sh' script functionalities available outside 'trunk/' repository directory structure, but at its same level in repository tree. This is useful if you need to use the "render" functionality of centos-art.sh under 'branches/' repository directory structure as you usually do inside 'trunk/' repository directory structure. As consequence of this configuration, automation scripts cannot be branched under 'branches/Scripts' directory structure.

# 3.59.2.3 Environment variables

Definition of environment variables helps us to set default values to our user session life. The user session environment variable definition takes place in the user's '~/.bash\_profile' file. The 'verify' functionality of 'centos-art.sh' script doesn't modify your '~/.bash\_profile' file.

The 'verify' functionality of 'centos-art.sh' script evaluates the following environment variables:

EDITOR Default text editor.

The 'centos-art.sh' script uses default text EDITOR to edit pre-commit subversion messages, translation files, configuration files, script files, and similar text-based files.

If EDITOR environment variable is not set, 'centos-art.sh' script uses '/usr/bin/vim' as default text editor. Otherwise, the following values are recognized by 'centos-art.sh' script:

- '/usr/bin/vim'
- '/usr/bin/emacs'
- '/usr/bin/nano'

If no one of these values is set in EDITOR environment variable, 'centos-art.sh' uses '/usr/bin/vim' text editor by default.

#### TEXTDOMAIN

Default domain used to retrieve translated messages. This variable is set in 'initFunctions.sh' and shouldn't be changed.

#### TEXTDOMAINDIR

Default directory used to retrieve translated messages. This variable is set in 'initFunctions.sh' and shouldn't be changed.

#### LANG

Default locale information.

This variable is initially set in the configuration process of CentOS distribution installer (i.e., Anaconda), specifically in the 'Language' step; or once installed using the system-config-language tool.

The 'centos-art.sh' script uses the LANG environment variable to know in which language the script messages are printed out.

ΤZ

Default time zone representation.

This variable is initially set in the configuration process of CentOS distribution installer (i.e., Anaconda), specifically in the 'Date and time' step; or once installed using the system-config-date tool.

The 'centos-art.sh' script doesn't use the TZ environment variable information at all. Instead, this variable is used by the system shell to show the time information according to your physical location on planet Earth.

Inside your computer, the time information is firstly set in the BIOS clock (which may need correction), and later in the configuration process of CentOS distribution installer (or later, by any of the related configuration tools inside CentOS distribution). Generally, setting time information is a straight-forward task and configuration tools available do cover most relevant location. However, if you need a time precision not provided by the configuration tools available inside CentOS distribution then, using TZ variable may be necessary.

**Convenction** In order to keep changes syncronized between central repository and its working copies: configure both repository server and workstations (i.e., the place where each working copy is set on) to use Coordinated Universal Time (UTC) as base time representation. Later, correct the time information for your specific location using time zone correction.

The format of TZ environment variable is described in 'tzset(3)' manual page.

## 3.59.3 Usage

## centos-art verify --packages

Verify required packages your workstation needs in order to run the 'centos-art.sh' script correctly. If there are missing packages, the 'centos-art.sh' script asks you to confirm their installation. When installing packages, the 'centos-art.sh' script uses the yum application in order to achieve the task.

In case all packages required by 'centos-art.sh' script are already installed in your workstation, the message 'The required packages are already installed.' is output for you to know.

#### centos-art verify --links

Verify required links your workstation needs in order to run the centos-art command correctly. If any required link is missing, the centos-art.sh script asks you to confirm their installation. To install required links, the centos-art.sh script uses the ln command.

In case all links required by 'centos-art.sh' script are already created in your workstation, the message 'The required links are already installed.' is output for you to know.

In case a regular file exists with the same name of a required link, the 'centos-art.sh' script outputs the 'Already exists as regular file.' message when listing required links that will be installed. Of course, as there is already a regular file where must be a link, no link is created. In such cases the 'centos-art.sh' script will fall into a continue installation request for that missing link. To end this continue request you can answer 'No', or remove the existent regular file to let 'centos-art.sh' script install the link on its place.

#### centos-art verify --environment

#### centos-art verify --environment --filter='regex'

Output a brief description of environment variables used by 'centos-art.sh' script. If '--filter' option is provided, output is reduced as defined in the 'regex' regular expression value. If '--filter' option is specified but 'regex' value is not, the 'centos-art.sh' script outputs information as if '--filter' option had not been provided at all. 3.59.4 See also
3.60 trunk/Scripts/Python
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