

Package ‘rbranding’

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Title Manage Branding and Accessibility of R Projects

Version 0.1.1

Description A tool for building projects that are visually consistent, accessible, and easy to maintain. It provides functions for managing branding assets, applying organization-wide themes using 'brand.yml', and setting up new projects with accessibility features and correct branding. It supports 'quarto', 'shiny', and 'rmarkdown' projects, and integrates with 'ggplot2'. The accessibility features are based on the Web Content Accessibility Guidelines <https://www.w3.org/WAI/WCAG22/quickref/?versions=2.1> and Accessible Rich Internet Applications (ARIA) specifications <https://www.w3.org/WAI/ARIA/apg/>. The branding framework implements the 'brand.yml' specification <https://posit-dev.github.io/brand-yml/>.

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URL <https://epiforesite.github.io/rbranding/>,
<https://github.com/EpiForeSITE/rbranding>

BugReports <https://github.com/EpiForeSITE/rbranding/issues>

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brand_add_logo	<i>Add Brand Logo to ggplot2 Plot</i>
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Description

brand_add_logo adds a logo from the brand configuration as an annotation to a ggplot2 plot.

Usage

```
brand_add_logo(x = 0.9, y = 0.1, size = 0.05, logo_type = "icon")
```

Arguments

- x Numeric. Horizontal position of the logo (0-1 scale). Default is 0.9.
- y Numeric. Vertical position of the logo (0-1 scale). Default is 0.1.
- size Numeric. Size of the logo as a fraction of the plot (0-1 scale). Default is 0.05.
- logo_type Character. Which logo to use: "icon" (default) or "full".

Details

This function reads the logo path from the stored brand configuration and creates a ggplot2 annotation layer. The brand configuration must be loaded first using brand_set_ggplot().

The function supports PNG images and requires the 'png' and 'grid' packages.

Value

A ggplot2 annotation_custom layer that can be added to a plot with +.

Examples

```
{
# First set the brand theme to load configuration
old_wd <- getwd()
setwd(tempdir()) # Change to temp directory for example
brand_init()
get_brand_public()
get_template("blank")
brand_set_ggplot()

# Create a plot and add logo
library(ggplot2)
ggplot(mtcars, aes(x = mpg, y = wt)) +
  geom_point() +
  labs(title = "Example Plot") +
  brand_add_logo()

# Customize logo position and size
ggplot(mtcars, aes(x = mpg, y = wt)) +
  geom_point() +
  labs(title = "Example Plot") +
  brand_add_logo(x = 0.1, y = 0.9, size = 0.08)

setwd(old_wd) # Restore original working directory
}
```

brand_init	<i>Initialize branding configuration</i>
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Description

brand_init initializes the branding configuration by creating two files:

- rbranding_config.yml: contains remote and local file paths to brand files
- _brand.yml: a placeholder branding file It is intended to be run once. Use a get_brand_*() function to download/update the brand file.

Usage

```
brand_init(brand_url = NULL, install_path = ".")
```

Arguments

brand_url	Optional URL. Points to the remote brand file. If NULL, defaults to rbranding's brand file on GitHub.
install_path	Optional string. Directory where the files should be created. Defaults to the current working directory.

Value

NULL. Called for its side effects: downloading and creating rbranding_config.yml and _brand.yml files.

Examples

```
tmpdir <- file.path(tempdir(), "brand_files")

brand_init(install_path = tmpdir)

# Clean up
unlink(tmpdir, recursive = TRUE)
```

brand_reset_ggplot	<i>Reset ggplot2 Theme to Previous State</i>
--------------------	--

Description

brand_reset_ggplot resets the ggplot2 theme to the state it was in before brand_set_ggplot() was called.

Usage

```
brand_reset_ggplot()
```

Value

Invisibly returns TRUE if reset was successful, FALSE if no previous theme was stored.

Examples

```
{
# Set brand theme
old_wd <- getwd()
setwd(tempdir()) # Change to temp directory for example
brand_init()
get_brand_public()
brand_set_ggplot()

# Create some plots with brand theme...

# Reset to original theme
brand_reset_ggplot()
setwd(old_wd) # Restore original working directory
}
```

brand_set_ggplot	<i>Set ggplot2 Theme from Brand Configuration</i>
------------------	---

Description

brand_set_ggplot sets the ggplot2 theme based on colors and typography defined in a _brand.yml file. This function reads the brand configuration and applies it as the default ggplot2 theme.

Usage

```
brand_set_ggplot(brand_file = NULL, use_fonts = TRUE)
```

Arguments

brand_file	Path to the _brand.yml file. If NULL, looks for _brand.yml in the current directory.
use_fonts	Logical. Whether to attempt to load and use custom fonts from the brand file. Default is TRUE.

Details

This function reads a brand.yml file and extracts color and = typography information to create a custom ggplot2 theme. The function:

- Maps brand colors to ggplot2 theme elements
- Attempts to load Google Fonts specified in the brand file
- Stores the previous theme for later restoration
- Sets the new theme as the default for all subsequent ggplot2 plots

The brand.yml file should follow the schema defined at: <https://github.com/posit-dev/brand-yml/>

Value

Invisibly returns the previous ggplot2 theme (for potential restoration).

Examples

```
{
# Set theme from default _brand.yml file
old_wd <- getwd()
setwd(tempdir()) # Change to temp directory for example
brand_init()
get_brand_public()
brand_set_ggplot()

# Create a plot - will use the brand theme
library(ggplot2)
ggplot(mtcars, aes(x = mpg, y = wt)) +
```

```

    geom_point() +
    labs(title = "Example Plot with Brand Theme")

# Reset to original theme
brand_reset_ggplot()

setwd(old_wd) # Restore original working directory
}

```

get_brand_private_github

Download the latest branding file from a private GitHub repository

Description

get_brand_private_github downloads the latest _brand.yml file from the remote URL specified in rbranding_config.yml or provided as function arguments. The remote file is assumed to be in a private GitHub repository and requires authentication. If the local _brand.yml file does not exist, it will be created. If the local file is different from the remote file, the function will save the contents to bak_brand.yml (as backup) and overwrite the local file with the contents of the remote file. When the function is run interactively (e.g., in RStudio console), the user is instead prompted to choose whether to overwrite the file and whether or not to create the backup.

Usage

```

get_brand_private_github(
  remote_file = NULL,
  local_file = NULL,
  auth_token = NULL,
  config_file = "rbranding_config.yml",
  run_interactive = TRUE,
  backup = FALSE,
  backup_folder = "."
)

```

Arguments

remote_file	Optional URL. Points to the remote brand file. If NULL, the value in the configuration file will be used.
local_file	Optional string. Path to the local branding file. If NULL, the value in the configuration file will be used.
auth_token	Optional authentication token for accessing the private GitHub repository. If NULL, the function will attempt to retrieve the token from the GITHUB_TOKEN environment variable or the git credential store.
config_file	Path to the configuration file. Default is rbranding_config.yml.

run_interactive	Logical indicating whether to run interactively. Defaults to TRUE.
backup	Logical indicating whether to create a backup of the local file if it is different from the remote file. Ignored if run interactively. Defaults to FALSE.
backup_folder	Folder where the backup file should be saved, if needed. Defaults to current working directory.

Value

NULL. Called for its side effects: updating `_brand.yml` and possibly creating `bak_brand.yml`

Examples

```
# Interactive example
if (interactive()) {
  tmpdir <- file.path(tempdir(), "brand_files")

  # Initialize config and local brand file
  brand_init(install_path = tmpdir)

  # Update local brand file if needed
  get_brand_private_github(
    config_file = file.path(tmpdir, "rbranding_config.yml")
  )

  # Cleanup
  unlink(tmpdir, recursive = TRUE)
}

## Not run:
# Example not run because it requires a GitHub
# personal access token with repo access

tmpdir <- file.path(tempdir(), "brand_files")
brand_init(install_path = tmpdir)

get_brand_private_github(
  config_file = file.path(tmpdir, "rbranding_config.yml"),
  auth_token = "your_github_token_here",
  run_interactive = FALSE,
  backup = TRUE,
  backup_folder = tmpdir
)

# Cleanup
unlink(tmpdir, recursive = TRUE)

## End(Not run)
```

get_brand_public

Download the latest branding file from a public source

Description

get_brand_public downloads the latest _brand.yml file from the remote URL specified in rbranding_config.yml or provided as function arguments. The remote file is assumed to be publicly accessible (no authentication), such as a website or public GitHub repository. If the local _brand.yml file does not exist, it will be created. If the local file is different from the remote file, the function will save the contents to bak_brand.yml (as backup) and overwrite the local file with the contents of the remote file. When the function is run interactively (e.g., in RStudio console), the user is instead prompted to choose whether to overwrite the file and whether or not to create the backup.

Usage

```
get_brand_public(
  remote_file = NULL,
  local_file = NULL,
  config_file = "rbranding_config.yml",
  run_interactive = TRUE,
  backup = FALSE,
  backup_folder = "."
)
```

Arguments

remote_file	Optional URL. Points to the remote brand file. If NULL, the value in the configuration file will be used.
local_file	Optional string. Path to the local branding file. If NULL, the value in the configuration file will be used.
config_file	Path to the configuration file. Default is rbranding_config.yml.
run_interactive	Logical indicating whether to run interactively. Defaults to TRUE.
backup	Logical indicating whether to create a backup of the local file if it is different from the remote file. Ignored if run interactively. Defaults to FALSE.
backup_folder	Folder where the backup file should be saved, if needed. Defaults to current working directory.

Value

NULL. Called for its side effects: updating _brand.yml and possibly creating bak_brand.yml

Examples

```
# Interactive example
if (interactive()) {
  tmpdir <- file.path(tempdir(), "brand_files")

  # Initialize config and local brand file
  brand_init(install_path = tmpdir)

  # Update local brand file if needed
  get_brand_public(
    config_file = file.path(tmpdir, "rbranding_config.yml")
  )

  # Cleanup
  unlink(tmpdir, recursive = TRUE)
}

# Non-interactive example
tmpdir <- file.path(tempdir(), "brand_files")
brand_init(install_path = tmpdir)

get_brand_public(
  config_file = file.path(tmpdir, "rbranding_config.yml"),
  run_interactive = FALSE,
  backup = TRUE,
  backup_folder = tmpdir
)

# Cleanup
unlink(tmpdir, recursive = TRUE)
```

get_template

*Copy template files into project***Description**

get_template copies example files from the package's templates directory into the user's current working directory or a specified subdirectory.

Usage

```
get_template(template_name = NULL, install_to = NULL)
```

Arguments

template_name	Optional string. Name of the template to use. Corresponds to a folder name templates/. If NULL (default) within an interactive session, the function will list available templates and prompt the user to select one.
install_to	Optional string. Directory where the example files should be copied. If NULL (default), the current working directory will be used.

Value

NULL. Called for its side effects: copying template files into the user's project directory.

Examples

```
if (interactive()) {  
  get_template() # prompts user to select an example  
}  
  
tmpdir <- file.path(tempdir(), "wastewater_test")  
get_template(template_name = "shiny_wastewater", install_to = tmpdir)  
  
# Cleanup  
unlink(tmpdir, recursive = TRUE)
```

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