Package 'tinysnapshot'

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Description Snapshots for unit tests using the 'tinytest' framework for R. Includes expectations to test base R and 'ggplot2' plots as well as console output from print().			
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tinysnapshot-package Snapshots for Unit Tests using the 'tinytest' Framework

Description

Snapshots for unit tests using the 'tinytest' framework for R. Includes expectations to test base R and 'ggplot2' plots as well as console output from print().

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Snapshots for Unit Tests using the 'tinytest'
Framework
```

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```
expect_equivalent_images
```

Test if two image files are equivalent

Description

Test if two image files are equivalent

Usage

```
expect_equivalent_images(
   current,
   target,
   tol = getOption("tinysnapshot_tol", default = 0),
   metric = getOption("tinysnapshot_metric", default = "AE"),
   fuzz = getOption("tinysnapshot_fuzz", default = 0),
   diffpath = NULL
)
```

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Arguments

current	path to an image file
target	path to an image file
tol	distance estimates larger than this threshold will trigger a test failure. Scale depends on the metric argument. With the default metric="AE" (absolute error), the tolerance corresponds roughly to the number of pixels of difference between the plot and the reference image.
metric	string with a metric from magick::metric_types() such as "AE" or "phash".
fuzz	relative color distance between 0 and 100 to be considered similar.
diffpath	path where to save an image which shows the differences between current and target. NULL means that the diff image is not saved.

Value

A tinytest object. A tinytest object is a logical with attributes holding information about the test that was run

expect_snapshot_plot Test if the new plot matches a target (snapshot) plot

Description

This expectation can be used with tinytest to check if the new plot matches a target plot.

When the expectation is checked for the first time, the expectation fails and a reference plot is saved to the inst/tinytest/_tinysnapshot folder.

When the expectation fails, the reference plot, the new plot, and a diff are saved to the inst/tinytest/label folder. Call the review() function to compare.

To update a snapshot, delete the reference file from the _tinysnapshot folder and run the test suite again.

See the package README file or website for detailed examples.

Usage

```
expect_snapshot_plot(
   current,
   label,
   width = getOption("tinysnapshot_width", default = NULL),
   height = getOption("tinysnapshot_height", default = NULL),
   tol = getOption("tinysnapshot_tol", default = 0),
   metric = getOption("tinysnapshot_metric", default = "AE"),
   fuzz = getOption("tinysnapshot_fuzz", default = 0),
   device = getOption("tinysnapshot_device", default = "svg"),
   device_args = getOption("tinysnapshot_device_args", default = list()),
   os = getOption("tinysnapshot_os", default = Sys.info()["sysname"])
)
```

Arguments

current	an object of class ggplot or a function which returns a base R plot.
label	a string to identify the snapshot (alpha-numeric, hyphens, or underscores). Each plot in the test suite must have a unique label.
width	of the snapshot. PNG default: 480 pixels. SVG default: 7 inches.
height	of the snapshot. PNG default: 480 pixels. SVG default: 7 inches.
tol	distance estimates larger than this threshold will trigger a test failure. Scale depends on the metric argument. With the default metric="AE" (absolute error), the tolerance corresponds roughly to the number of pixels of difference between the plot and the reference image.
metric	string with a metric from magick::metric_types() such as "AE" or "phash".
fuzz	relative color distance between 0 and 100 to be considered similar.
device	"svg", "png", "ragg" or "svglite"
device_args	list of arguments to pass to the device call (e.g., $user_fonts$ for $svglite$ device).
os	character vector of operating systems on which the test should be run (e.g., "Windows", "Linux", "Darwin"). Tests are skipped when no element of the vector matches the output of: $sys.info()["sysname"]$

Value

A tinytest object. A tinytest object is a logical with attributes holding information about the test that was run

expect_snapshot_print Test if printed output matches a target printout

Description

This expectation can be used with tinytest to check if the new plot matches a target plot.

When the expectation is checked for the first time, the expectation fails and a reference text file is saved to the inst/tinytest/_tinysnapshot folder.

To update a snapshot, delete the reference file from the _tinysnapshot folder and run the test suite again.

See the package README file or website for detailed examples.

Usage

```
expect_snapshot_print(
  current,
  label,
  mode = getOption("tinysnapshot_mode", default = "unified"),
  format = getOption("tinysnapshot_format", default = "ansi256"),
  ...
)
```

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Arguments

current an object which returns text to the console when calling print(x)'

label a string to identify the snapshot (alpha-numeric, hyphens, or underscores). Each

plot in the test suite must have a unique label.

mode "unified", "sidebyside", "context", or "auto". See ?diffobj::diffPrint format "raw", "ansi8", "ansi256", "html", or "auto". See ?diffobj::diffPrint

... Additional arguments are passed to diffobj::diffPrint()

Value

A tinytest object. A tinytest object is a logical with attributes holding information about the test that was run

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