Package 'ggbuildr'

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Type Package

Title Save Incremental Builds of Plots

Version 0.1.0

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Description Saves a 'ggplot' object into multiple files, each with a layer
added incrementally. Generally to be used in presentation slides.
Flexible enough to allow different file types for the final complete plot,
and intermediate builds.

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests testthat

Depends ggplot2

Imports purrr, readr, tools

NeedsCompilation no

Repository CRAN

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Contents

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build_plot	*Incrementally build and save layers of a ggplot object into numbered files*

Description

`build_plot` save a ggplot object incrementally, adding geom layers in the order specified with a list in the `build_order` argument.

Usage

```
build_plot(plot, filepath = NULL, build_order, subdir = "builds",
  ext = tools::file_ext(filepath), build_ext = ext, save_full = TRUE,
  save_rds = FALSE, preserve_order = TRUE, ...)
```

Arguments

plot	ggplot object. The final plot to build towards.
filepath	character string specifying where to save the plot, with or without extensions. If the filepath is given without extension, the `ext` and/or `build_ext` arguments must be specified. Non-existing paths are created automatically. If not specified (or set to NULL), plots are `printed`.
build_order	list of numerical vectors. The order in which to build each layer of the plot, where the first (lowest) layer is 1. Multiple layers can be built at a single increment by specifying the list element as a vector of two or more values.
subdir	character string. Specifies where to save the incremental builds, as opposed to the final, full plot. (default: "builds")
ext	character string. Extension for the full plot. Also used as extension for builds if `build_ext` is not specified
build_ext	(Optional) character string. If specified, the incremental builds will be saved in this format (e.g., one could save the final plot as a pdf, but save the incremental builds as a png which might be easier to add to slides.)
save_full	logical. Whether or not to save the full plot (default: TRUE)
save_rds	logical. Whether or not to save the full ggplot object as an rds file with the same filepath. (default: FALSE)
preserve_order	logical. Whether or not to keep the original order of the layers. Only relevant if the specified `build_order` is not monotonically increasing.
...	other arguments, passed to [ggsave](e.g. width/height)

Details

The graphic device is either automatically detected from the `filepath`, or can be set explicitly with `ext`. By default, the final, complete plot is saved in `filepath`, and the incremental builds are saved in a subdirectory specified with `subdir`, "builds" by default. Sometimes, it's useful to also keep the full ggplot object as an rds file for future edits, which can be done by setting the `save_rds` argument to TRUE.

Value

Saves plots to specified path.

Examples

```
X <- rnorm(20)
Y <- X + rnorm(20)

set.seed(1)
pd <- data.frame(X, Y)
p <- ggplot(pd, aes(X, Y)) +
  geom_smooth() +
  geom_point()

# Plot smooth, and then point
build_plot(p, build_order = list(1, 2))

# Plot point, and then smooth, but preserve order (i.e, keep points on top)
build_plot(p, build_order = list(2, 1))

# Plot point, and then smooth, and draw smooth layer on top of point
build_plot(p, build_order = list(2, 1), preserve_order = FALSE)
```

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  ggbuildr   *ggbuildr: A package for incrementally building layers of a ggplot*

Description

The `ggbuildr` package provides functions for saving incremental versions of a ggplot object, mainly to be used in a slide deck.

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