

Package ‘tufte’

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Type Package

Title Tufte's Styles for R Markdown Documents

Version 0.15.0

Description Provides R Markdown output formats to use Tufte styles for PDF and HTML output.

License GPL-3

URL <https://github.com/rstudio/tufte>

BugReports <https://github.com/rstudio/tufte/issues>

Imports htmltools, knitr (>= 1.28), rmarkdown (>= 2.11), xfun (>= 0.13)

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tufte_handout	<i>Tufte handout formats (PDF and HTML)</i>
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Description

Templates for creating handouts according to the style of Edward R. Tufte and Richard Feynman.

Usage

```
tufte_handout(
  fig_width = 4,
  fig_height = 2.5,
  fig_crop = "auto",
  dev = "pdf",
  highlight = "default",
  margin_fig_pos = NULL,
  ...
)

tufte_book(
  fig_width = 4,
  fig_height = 2.5,
  fig_crop = "auto",
  dev = "pdf",
  highlight = "default",
  margin_fig_pos = NULL,
  ...
)

tufte_handout2(...)

tufte_book2(...)

tufte_html2(...)

tufte_html(
  ...,
  tufte_features = c("fonts", "background", "italics"),
  tufte_variant = c("default", "envisioned"),
  margin_references = TRUE
)
```

```

newthought(text)

margin_note(text, icon = "&#8853;")

quote_footer(text)

sans_serif(text)

```

Arguments

<code>fig_width</code>	Default width (in inches) for figures
<code>fig_height</code>	Default height (in inches) for figures
<code>fig_crop</code>	Whether to crop PDF figures with the command <code>pdftocrop</code> . This requires the tools <code>pdftocrop</code> and <code>ghostscript</code> to be installed. By default, <code>fig_crop = TRUE</code> if these two tools are available.
<code>dev</code>	Graphics device to use for figure output (defaults to <code>pdf</code>)
<code>highlight</code>	Syntax highlighting style passed to Pandoc. Supported built-in styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "breezedark". Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a <code>.theme</code> file to use a custom Pandoc style . Note that custom theme requires Pandoc 2.0+. Pass <code>NULL</code> to prevent syntax highlighting.
<code>margin_fig_pos</code>	Default vertical offset for margin figures (a LaTeX length such as <code>"0cm"</code> or <code>"-5pt"</code>). When set, this value is used as the <code>fig.pos</code> for all chunks with <code>fig.margin = TRUE</code> , unless the chunk specifies its own <code>fig.pos</code> . This avoids the problem of setting <code>fig.pos</code> globally via <code>knitr::opts_chunk\$set()</code> , which would also affect regular figures where <code>fig.pos</code> is a placement specifier (e.g. <code>"htbp"</code>), not a length. Can also be set per-chunk or via <code>knitr::opts_chunk\$set()</code> as the <code>margin_fig_pos</code> chunk option. Defaults to <code>NULL</code> (use the Tufte-LaTeX class default of <code>-1.2ex</code>).
<code>...</code>	Other arguments to be passed to <code>rmarkdown::pdf_document()</code> or <code>rmarkdown::html_document()</code> (note you cannot use the <code>template</code> argument in <code>tufte_handout</code> or the <code>theme</code> argument in <code>tufte_html()</code> ; these arguments have been set internally)
<code>tufte_features</code>	A character vector of style features to enable: <code>fonts</code> stands for the et-book fonts in the <code>tufte-css</code> project, <code>background</code> means the lightyellow background color of the page, and <code>italics</code> means whether to use italics for the headers. You can enable a subset of these features, or just disable all of them by <code>NULL</code> . When this argument is not used and the <code>tufte_variant</code> argument is not default, no features are enabled.
<code>tufte_variant</code>	A variant of the Tufte style. Currently supported styles are <code>default</code> (from the <code>tufte-css</code> project), and <code>envisioned</code> (inspired by the project <code>Envisioned CSS</code> https://github.com/nogginfuel/envisioned-css but essentially just sets the font family to <code>Roboto Condensed</code> , and changed the background/foreground colors).

margin_references	Whether to place citations in margin notes.
text	A character string to be presented as a “new thought” (using small caps), or a margin note, or a footer of a quote
icon	A character string to indicate there is a hidden margin note when the page width is too narrow (by default it is a circled plus sign)

Details

tufte_handout() provides the PDF format based on the Tufte-LaTeX class: <https://tufte-latex.github.io/tufte-latex/>.

tufte_handout2() and tufte_book2() are wrappers around `bookdown::pdf_book()` that use the corresponding tufte format as the base format. They support bookdown text references (`(ref:label)`) in figure and table captions, cross-references, and other bookdown extensions. Requires the **bookdown** package to be installed.

tufte_html() provides the HTML format based on the Tufte CSS: <https://edwardtufte.github.io/tufte-css/>.

tufte_html2() is a wrapper around `bookdown::html_document2()` that uses tufte_html() as the base format, enabling text references and cross-references. Requires the **bookdown** package.

newthought() can be used in inline R expressions in R Markdown

```
`r newthought(Some text)`
```

and it works for both HTML (`text`) and PDF (`\newthought{text}`) output.

margin_note() can be used in inline R expressions to write a margin note (like a sidenote but not numbered).

quote_footer() formats text as the footer of a quote. It works in any HTML or LaTeX output format, not only tufte formats, and tries to render text consistently across formats:

- If text starts with “---” (or an em-dash), an em-dash + non-breaking space is rendered before the rest of the text in every output. The leading “---” is stripped from text to avoid duplication when the destination format would otherwise inject its own em-dash.
- For tufte HTML, text is wrapped in a `<footer>` element styled by `tufte.css`. For non-tufte HTML (e.g. `rmarkdown::html_document()`, including `bslib` Bootstrap 4 and 5 themes), text is wrapped in a `<footer class="blockquote-footer">` so that Bootstrap’s `.blockquote-footer` styling (including the `::before` em-dash) applies. An inline `text-align: right` is added in both cases.
- For LaTeX output (tufte or non-tufte), text is prepended with `\hfill` to right-align it. Pandoc’s smart-punctuation extension converts a leading “---” to an em-dash glyph.

quote_footer() detects whether the active output is a tufte format via the `tufte.format` entry that the tufte output formats register in `knitr::opts_knit`.

sans_serif() applies sans-serif fonts to text.

Value

`tufte_handout()`, `tufte_book()`, `tufte_html()`, and the bookdown wrappers `tufte_handout2()`, `tufte_book2()`, and `tufte_html2()` return an R Markdown output format object that can be passed to `rmarkdown::render()`. The inline helpers `newthought()`, `margin_note()`, `quote_footer()`, and `sans_serif()` return a character string with HTML or LaTeX markup depending on the active output format.

References

See <https://rstudio.github.io/tufte/> for an example.

Examples

```
library(tufte)
newthought("In this section")
```

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