

# Package ‘iheiddown’

September 27, 2022

**Title** For Writing Geneva Graduate Institute Documents

**Description** A set of tools for writing documents according to Geneva Graduate Institute conventions and regulations. The most common use is for writing and compiling theses or thesis chapters, as drafts or for examination with correct preamble formatting. However, the package also offers users to create HTML presentation slides with 'xaringan', complete problem sets, format posters, and, for course instructors, prepare a syllabus. The package includes additional functions for institutional color palettes, an institutional 'ggplot' theme, a function for counting manuscript words, and a bibliographical analysis toolkit.

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**URL** <https://github.com/jhollway/iheiddown>

**BugReports** <https://github.com/jhollway/iheiddown/issues>

**Depends** R (>= 3.5.0)

**License** MIT + file LICENSE

**Imports** bookdown, dplyr, ggplot2, rmarkdown, xaringan, crayon, pdftools, rlang, servr, readr, rstudioapi, tibble, tidytext, bib2df, stringr, fs, usethis, gender, pagedown

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**VignetteBuilder** knitr

**NeedsCompilation** no

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advdate	<i>Advance dates by week</i>
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### Description

This function takes a start date, e.g. of a course, and advances it by a number of weeks. This function is used in the syllabus template.

### Usage

```
advdate(startdate, week)
```

### Arguments

startdate	The first date in the series (e.g. first day of class).
week	The number of weeks into the series. Week 1 is the first date in the series.

### Value

A vector of dates in the format "dd mmm" in parentheses.

### Examples

```
advdate("2021-06-23", 1:3)
```

## Description

These functions are useful for calculating salient statistics on the bibliographies used for dissertations or syllabi. They include the following functions/metrics:

## Usage

```
percent_female(bib_file, rmd_file, by = c("author", "publication"))
```

```
mean_year(bib_file, rmd_file)
```

```
mean_pages(bib_file, rmd_file)
```

```
total_pages(bib_file, rmd_file)
```

## Arguments

- |                       |   |
|-----------------------|---|
| <code>bib_file</code> | A .bib file for the project. If not given, the functions will search for a .bib file in the folder associated with the file the source editor has open.   |
| <code>rmd_file</code> | A .rmd file. If not given, the functions will check to see whether the current file open in the source editor is an .rmd file, and if so use that.  |
| <code>by</code>       | A string in <code>c("author", "publication")</code> which determines if the percentage of female authors is computed across all papers or the percentage represents the proportion of papers written by at least one woman. |

## Details

`percent_female()` Displays the percentage of authors in a .bib file that are female. See the `{gender}` package for more details.

`mean_year()` Displays the average year of publication of the items in a given .bib file.

`mean_pages()` Displays the average number of pages of the items in a given .bib file.

`total_pages()` Displays the total number of pages of all items in a given .bib file.

## Value

Prints a summary statistic (e.g. mean or proportion)

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bookdown_profile	<i>Manage iheiddown profile</i>
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---

**Description**

This RStudio Addin opens up the `~/_bookdown.yml` file for users to edit. If the file doesn't exist, it will create one.

**Usage**

```
bookdown_profile()
```

**Value**

Opens or creates a bookdown profile YAML file for the current thesis.

---

chapter_pdf	<i>Creates an R Markdown PDF Thesis chapter</i>
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---

**Description**

This function can be used in the header of each constituent chapter of an IHEID thesis to output a draft version of the chapter for proofreading or sending to your supervisor.

**Usage**

```
chapter_pdf(input, ...)
```

**Arguments**

input	Rmd input file that will be processed by the function.
...	Instructions passed to the function from a correctly specified .Rmd document

**Value**

A modified pdf\_document based on the IHEID Thesis LaTeX template

**Examples**

```
## Not run:
knit: iheiddown::chapter_pdf

## End(Not run)
```

---

countwords	<i>A function for counting words in an Rmarkdown document.</i>
------------	--

---

### Description

This function takes a path to a .Rmd file and returns a word count. For best results each sentence should start on a new line. Inline code chunks should also start on a new line.

### Usage

```
count_words(file)
```

```
count_words2(file)
```

### Arguments

file            A path to a .Rmd file

### Value

A scalar representing the number of words in the document.

### Examples

```
rmarkdown::draft(file = "test", template = "html_vignette",  
package = "rmarkdown", create_dir = TRUE, edit = FALSE)  
iheiddown::count_words("test/test.Rmd")  
unlink("test", recursive = TRUE)
```

---

iheiddown_poster	<i>Posterdown inspired HTML posters</i>
------------------	---

---

### Description

These functions render different versions of the original {posterdown} templates with a little IHEID twist to them. All exports are in HTML format. You can save them by printing them to PDF via a modern browser.

The output format `poster_betterland()` mimics the style of the BetterPoster movement from twitter with an IHEID twist.

The output format `poster_betterport()` mimics the style of the BetterPoster movement from twitter with an IHEID twist.

## Usage

```
iheiddown_poster(  
  ...,  
  template = system.file("rmarkdown", "templates", "iheiddown_poster", "resources",  
    "template.html", package = "iheiddown"),  
  css = NULL  
)  
  
iheiddown_betterland(  
  ...,  
  template = system.file("rmarkdown", "templates", "iheiddown_betterland", "resources",  
    "template.html", package = "iheiddown"),  
  css = NULL  
)  
  
iheiddown_betterport(  
  ...,  
  template = system.file("rmarkdown", "templates", "iheiddown_betterport", "resources",  
    "template.html", package = "iheiddown"),  
  css = NULL  
)
```

## Arguments

...	Additional arguments to <code>rmarkdown::html_document</code>
template	See <a href="#">html_paged()</a> .
css	See <a href="#">html_paged()</a> .

## Value

R Markdown output format to pass to [rmarkdown::render\(\)](#)

## Source

```
{Posterdown}
```

## Examples

```
## Not run:  
file <- file.path(tempdir(), "foo.rmd")  
rmarkdown::draft(file, template="iheiddown_poster", package="iheiddown")  
  
## End(Not run)
```

---

iheid\_palette      *An IHEID palette generator*

---

## Description

These are a few color palettes useful for members of the Geneva Graduate Institute. This function calls one of three official palettes in `iheid_palette`: for the Institute, for the Centres, and for the SDGs.

## Usage

```
iheid_palette(name, n, type = c("discrete", "continuous"))
```

## Arguments

name	Name of desired palette. Current choices are: IHEID, Centres, and SDGs.
n	Number of colors desired. If omitted, uses all colours.
type	Either "continuous" or "discrete". Use continuous if you want to automatically interpolate between colours.

## Value

A vector of colours.

## Source

Adapted from <https://github.com/karthik/wesanderson/blob/master/R/colors.R>

## Examples

```
iheid_palette("IHEID")
iheid_palette("Centres")
iheid_palette("SDGs")

# If you need more colours than normally found in a palette, you
# can use a continuous palette to interpolate between existing
# colours
pal <- iheid_palette(21, name = "Centres", type = "continuous")
image(volcano, col = pal)
```

---

iheid_palettes	<i>Complete list of palettes</i>
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---

**Description**

Use `iheid_palette` to construct palettes of desired length.

**Usage**

```
iheid_palettes
```

**Format**

An object of class `list` of length 3.

---

preview	<i>Previewing rmarkdown documents</i>
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**Description**

Use the `servr` package to continuously serve and reload the Rmd document. Run `preview_start()` function while viewing the Rmd panel of your presentation. To stop the server, run `preview_stop()`.

**Usage**

```
preview_start(file_path, ...)
```

```
preview_stop(which = NULL)
```

**Arguments**

<code>file_path</code>	The input Rmd file path (if missing and in RStudio, the current active document is used).
<code>...</code>	Additional arguments passed to <code>rmarkdown::render()</code> .
<code>which</code>	An integer vector of the server IDs; by default, IDs of all existing servers in the current R session obtained from <code>daemon_list()</code> , i.e., all daemon servers will be stopped by default.

**Value**

Starts serving the current files to RStudio's Viewer pane.

Stops serving the current files to RStudio's Viewer pane.

**References**

xaringan

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problemset_pdf	<i>Creates an R Markdown PDF Problem Set document</i>
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---

**Description**

This is a function called in output in the YAML of the driver Rmd file to specify using the IHEID Problem Set LaTeX template file.

**Usage**

```
problemset_pdf(input, ...)
```

**Arguments**

input	The name of the .Rmd file to serve as input.
...	Instructions passed to the function from a correctly specified .Rmd document

**Value**

A modified pdf\_document based on the IHEID Problem Set LaTeX template, automatically named by course and date.

**Examples**

```
## Not run:  
output:  
  iheiddown::problemset_pdf:  
    input: "Untitled.Rmd"  
    # Replace with whatever the name of this file is, e.g. "MINT001.Rmd"  
  
## End(Not run)
```

---

syllabus_pdf	<i>Creates an R Markdown PDF Syllabus document</i>
--------------	--

---

**Description**

This is a function called in output in the YAML of the driver Rmd file to specify using the IHEID Syllabus LaTeX template file.

**Usage**

```
syllabus_pdf(input, ...)
```

**Arguments**

input            The name of the .Rmd file to serve as input.  
 ...             Instructions passed to the function from a correctly specified .Rmd document

**Value**

A modified pdf\_document based on the IHEID Syllabus LaTeX template, automatically named by course and date.

**Examples**

```
## Not run:
output:
  iheiddown::syllabus_pdf:
    input: "Untitled.Rmd"
    # Replace with whatever the name of this file is, e.g. "MINT001.Rmd"

## End(Not run)
```

---

theme_iheid	<i>A ggplot2 theme for IHEID style plots. Adapted from Hrbrmstr's ipsum theme.</i>
-------------	--

---

**Description**

A ggplot2 theme for IHEID style plots. Adapted from Hrbrmstr's ipsum theme.

**Usage**

```
theme_iheid(
  base_family = "sans",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = base_family,
  subtitle_size = 12,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = base_family,
  caption_size = 9,
  caption_face = "italic",
  caption_margin = 10,
```

```

axis_text_size = base_size,
axis_title_family = subtitle_family,
axis_title_size = 9,
axis_title_face = "plain",
axis_title_just = "rt",
plot_margin = margin(30, 30, 30, 30),
grid_col = "grey85",
grid = TRUE,
axis_col = iheid_palette("IHEID")["IHEIDBlack"],
axis = FALSE,
ticks = FALSE
)

```

### Arguments

base\_family, base\_size  
base font family and size

plot\_title\_family, plot\_title\_face, plot\_title\_size, plot\_title\_margin  
plot title family, face, size and margin

subtitle\_family, subtitle\_face, subtitle\_size  
plot subtitle family, face and size

subtitle\_margin  
plot subtitle margin bottom (single numeric value)

strip\_text\_family, strip\_text\_face, strip\_text\_size  
facet label font family, face and size

caption\_family, caption\_face, caption\_size, caption\_margin  
plot caption family, face, size and margin

axis\_text\_size font size of axis text

axis\_title\_family, axis\_title\_face, axis\_title\_size  
axis title font family, face and size

axis\_title\_just  
axis title font justification, one of [blmcr]t

plot\_margin plot margin (specify with `ggplot2::margin()`)

grid\_col, axis\_col  
grid & axis colors; both default to #cccccc

grid panel grid (TRUE, FALSE, or a combination of X, x, Y, y)

axis add x or y axes? TRUE, FALSE, "xy"

ticks ticks if TRUE add ticks

### Value

Themes the current ggplot to current IHEID guidelines.

**Examples**

```

library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_iheid()

# seminal bar chart
count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n, nudge_y=3)) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_iheid(grid="Y") +
  theme(axis.text.y=element_blank())

```

---

thesis\_pdf

*Creates an R Markdown PDF Thesis document*


---

**Description**

This is a function called in output in the YAML of the driver Rmd file to specify using the IHEID Thesis LaTeX template file.

**Usage**

```
thesis_pdf(input = ".", ...)
```

**Arguments**

input	Rmd input file that will be processed by the function.
...	Instructions passed to the function from a correctly specified .Rmd document

**Value**

A modified pdf\_document based on the IHEID Thesis LaTeX template

**Examples**

```
## Not run:  
knit: iheiddown::thesis_pdf  
  
## End(Not run)
```

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