

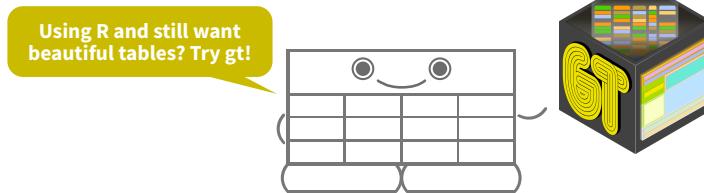
Great Tables :: CHEAT SHEET

Package Aims

Great Tables allows you to make beautiful and presentable table displays from Python DataFrames (Polars, Pandas, and Arrow). The package provides methods for you to **structure**, **format**, and **style** the table to your heart's content.

The resulting tables can be easily displayed in notebooks and Quarto documents. And there are options for saving images of a table or getting HTML or LaTeX table code.

INSTALLATION `pip install great_tables`



Creating a GT Table

BASIC EXAMPLE WITH SAMPLE DATA

```
from great_tables import GT
from great_tables.data import islands dataset

gt_tbl = GT(islands.head(5)) create GT object
gt_tbl display HTML table
```

OUTPUT

column labels	
name	size
Africa	11506
Antarctica	5500
Asia	16988
Australia	2968
Axel Heiberg	16

table body

SAMPLE DATASETS

countrypops, sza, gtcars, sp500, pizzaplace, exibble, towny + more

SHOWING IN BROWSER

```
gt_tbl.show("browser")
```

POLARS STYLE PROPERTY

```
df_polars.style
create GT object with Polars API
```

Adding Structure

ADDING A HEADER AND FOOTER

`tab_header()` → add title and optional subtitle, can use `md()` or `html()` helpers
`tab_source_note()` → add text to table footer (helpers can be used here too)

ADDING A STUB AND ROW GROUPS

`GT(rowname_col="column")` → assign a column with row names to the stub

`GT(groupname_col="column")` → column with categoricals groups rows

ADDING COLUMN SPANNERS

`tab_spinner()` → add spinner over cols
`tab_spinner_delim()` → use delimited col names to set up multiple spinners

Styling the Table

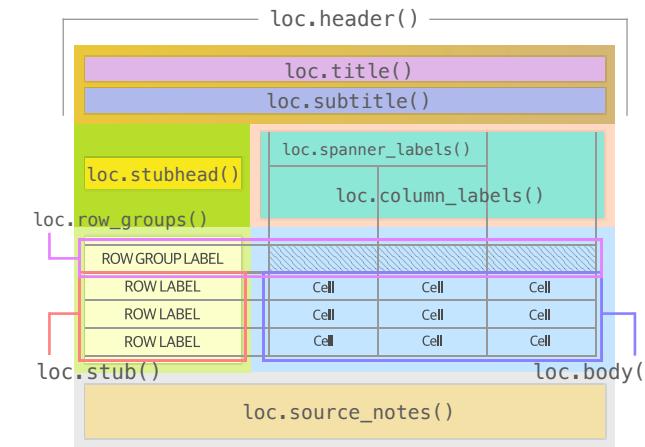
```
from great_tables import loc, style
```

import these two modules

`tab_style()` → apply styles to various locations

```
gt_tbl.tab_style(style=[styles], locations=[locations])
```

THE DIFFERENT LOCATIONS OF A TABLE



THREE WAYS TO STYLE

`style.fill()` → fill location with color
`style.text()` → style location's text
`style.borders()` → set up borders and define styles for them

YOU ALSO HAVE OTHER OPTIONS

`tab_options()` → many, many options for styling that applies to whole table
`opt_stylize()` → set a theme, 36 looks
`opt_table_font()` → set a font to use

Formatting Data Values

FORMATTING BASICS

Formatting methods have the `columns` and `rows` parameters to specify which body values should be formatted.

columns=None rows=None	columns="C" rows=None	columns="C" rows=[0, 1]	columns=None rows=[0, 1]
A B C	A B C	A B C	A B C

format all values format all C values format some C values format rows of values

NUMERIC FORMATTING

- `fmt_number()` → decimal values
- `fmt_integer()` → integer values
- `fmt_percent()` → percentage values
- `fmt_scientific()` → scientific not'n

common params: decimals in 1,3,4 for fixed # of decimals / scale_by in 1,2,4 to multiply number before formatting / accounting in 1,2,3 to display in that notation / compact in 1,2 to condense large numbers / locale in 1-4 to localize formatted values to language/region.

DATE/TIME FORMATTING

`fmt_date()` → format with a date style
`iso`: "2000-02-29" (the default)
`wday_month_day_year`: "Tuesday, February 29, 2000"
`wd_m_day_year`: "Tue, Feb 29, 2000"
`wday_day_month_year`: "Tuesday 29 February 2000"
`month_day_year`: "February 29, 2000"

`fmt_time()` → format with a time style
`iso`: "14:35:00" (the default)
`h_m_s_p`: "2:35:00 PM"
`h_m_p`: "2:35 PM"

`fmt_datetime()` → format with date/time styles or with the `format_str` parameter

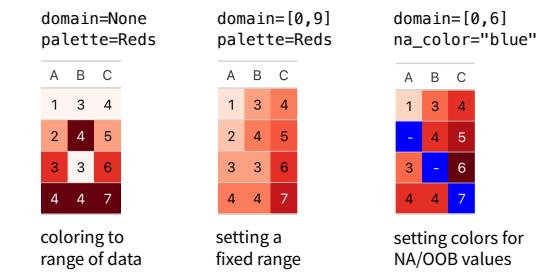
FORMATTING INVOLVING GRAPHICS

`fmt_image()` → insert images to cells with filenames; path / file_pattern help resolve
`fmt_icon()` → add icons to cells containing FontAwesome short icon names (e.g., "cat")
`fmt_flag()` → add flag icons to cells w/ 2- or 3-letter country codes (e.g., "LU" or "LUX")

common to all: cells may have multiple instances of replaceable text for these formatters, they must be comma-separated though.

COLORIZING BODY CELLS

`data_color()` → apply color to a series of cells according to their value



ADDING NANOPLOTS

`fmt_nanoplot()` → convert series of values (strings w/ vals or a list column) to tiny interactive plots

