

Examples with {gt}

November 22, 2021

Print a Plain Dataframe

```
df <- penguins %>%  
  head(n = 10)  
  
df %>% gt()
```

species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex	year
Adelie	Torgersen	39.1	18.7	181	3750	male	2007
Adelie	Torgersen	39.5	17.4	186	3800	female	2007
Adelie	Torgersen	40.3	18.0	195	3250	female	2007
Adelie	Torgersen	NA	NA	NA	NA	NA	2007
Adelie	Torgersen	36.7	19.3	193	3450	female	2007
Adelie	Torgersen	39.3	20.6	190	3650	male	2007
Adelie	Torgersen	38.9	17.8	181	3625	female	2007
Adelie	Torgersen	39.2	19.6	195	4675	male	2007
Adelie	Torgersen	34.1	18.1	193	3475	NA	2007
Adelie	Torgersen	42.0	20.2	190	4250	NA	2007

{gtsummary} Examples

Default Print Engine

Example where we don't specify print engine:

```
penguins %>%  
  tbl_summary() %>%  
  bold_labels() %>%  
  italicize_levels()
```

```
## Table printed with 'knitr::kable()', not {gt}. Learn why at  
## http://www.danielsjoberg.com/gtsummary/articles/rmarkdown.html  
## To suppress this message, include 'message = FALSE' in code chunk header.
```

Characteristic	N = 344
Species	

Characteristic	N = 344
<i>Adelie</i>	152 (44%)
<i>Chinstrap</i>	68 (20%)
<i>Gentoo</i>	124 (36%)
Island	
<i>Biscoe</i>	168 (49%)
<i>Dream</i>	124 (36%)
<i>Torgersen</i>	52 (15%)
Bill Length Mm	44.5 (39.2, 48.5)
<i>Unknown</i>	2
Bill Depth Mm	17.30 (15.60, 18.70)
<i>Unknown</i>	2
Flipper Length Mm	197 (190, 213)
<i>Unknown</i>	2
Body Mass G	4,050 (3,550, 4,750)
<i>Unknown</i>	2
Sex	
<i>female</i>	165 (50%)
<i>male</i>	168 (50%)
<i>Unknown</i>	11
Year	
<i>2007</i>	110 (32%)
<i>2008</i>	114 (33%)
<i>2009</i>	120 (35%)

Specify Print Engine

```
penguins %>%
  tbl_summary() %>%
  bold_labels() %>%
  italicize_levels() %>%
  as_gt()
```

Characteristic	N = 344 ¹
Species	
Adelie	152 (44%)
Chinstrap	68 (20%)
Gentoo	124 (36%)
Island	
Biscoe	168 (49%)
Dream	124 (36%)
Torgersen	52 (15%)
Bill Length Mm	44.5 (39.2, 48.5)
Unknown	2
Bill Depth Mm	17.30 (15.60, 18.70)
Unknown	2
Flipper Length Mm	197 (190, 213)
Unknown	2
Body Mass G	4,050 (3,550, 4,750)

Unknown	2
Sex	
female	165 (50%)
male	168 (50%)
Unknown	11
Year	
2007	110 (32%)
2008	114 (33%)
2009	120 (35%)

¹n (%); Median (IQR)

With Compact Theme

```
theme_gtsummary_compact()
```

```
## Setting theme 'Compact'
```

```
penguins %>%
  tbl_summary() %>%
  bold_labels() %>%
  italicize_levels() %>%
  as_gt()
```

Characteristic	N = 344 ¹
Species	
Adelie	152 (44%)
Chinstrap	68 (20%)
Gentoo	124 (36%)
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Sex	
female	165 (50%)
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Unknown	11
Year	
2007	110 (32%)
2008	114 (33%)

	2009	120 (35%)
--	------	-----------

¹n (%); Median (IQR)

```
reset_gtsummary_theme()
```

Add Header

```
penguins %>%
  tbl_summary() %>%
  bold_labels() %>%
  italicize_levels() %>%
  as_gt() %>%
  tab_header("Title")
```

Title	
Characteristic	N = 344 ¹
Species	
Adelie	152 (44%)
Chinstrap	68 (20%)
Gentoo	124 (36%)
Island	
Biscoe	168 (49%)
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Year	
2007	110 (32%)
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¹n (%); Median (IQR)

Add Footnotes

```
x <- penguins %>%
  tbl_summary() %>%
```

```
bold_labels() %>%
italicize_levels() %>%
as_gt()

# To inspect internals of gt object you can do:
#x$`_data`

x %>%
  tab_footnote(
    footnote = "Custom Footnote",
    locations = cells_column_labels(
      columns = label
    )
  )
```

Characteristic ¹	N = 344 ²
Species	
Adelie	152 (44%)
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Gentoo	124 (36%)
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Biscoe	168 (49%)
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Unknown	2
Sex	
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Unknown	11
Year	
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2008	114 (33%)
2009	120 (35%)

¹Custom Footnote

²n (%); Median (IQR)

Highlight Specific Values

```
x <- penguins %>%
  tbl_summary() %>%
  bold_labels() %>%
  italicize_levels() %>%
  as_gt() %>%
  tab_header("Title")
```

```
x$`_data` <- x$`_data` %>%
  mutate(new_cond = parse_number(stat_0))

x %>%
  gt::tab_style(
    style = list(
      cell_fill(color = "purple")
    ),
    locations = cells_body(
      columns = stat_0,
      rows = new_cond >= 100
    )
  )
)
```

Title	
Characteristic	N = 344 ¹
Species	
Adelie	152 (44%)
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Sex	
female	165 (50%)
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Unknown	11
Year	
2007	110 (32%)
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¹n (%); Median (IQR)

```
x %>%
  mutate(new_cond = parse_number(stat_0)) %>%
  set_text_color(row = .$new_cond >= 100, 2, "purple") %>%
  select(-new_cond)
```

Merged Tables with Spanning Headers

[illegible]

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
tbl_merge(list(sum, reg),
           tab_spanner = c("**Summary Statistics**", "**Regression**")) %>%
  as_gt()
```

Characteristic	Summary Statistics				Regression*	
	Adelie, N = 152 ¹	Chinstrap, N = 68 ¹	Gentoo, N = 124 ¹	p-value ²	log(OR) ³	95% CI ³
Island				<0.001		
Biscoe	44 (29%)	0 (0%)	124 (100%)		—	—
Dream	56 (37%)	68 (100%)	0 (0%)		-0.78	-1.3, -0.29
Torgersen	52 (34%)	0 (0%)	0 (0%)		-20	-337, 20
Sex				>0.9		
female	73 (50%)	34 (50%)	58 (49%)		—	—
male	73 (50%)	34 (50%)	61 (51%)		0.01	-0.49, 0.50
Unknown	6	0	5			

¹n (%)

²Pearson's Chi-squared test

³OR = Odds Ratio, CI = Confidence Interval

Saving Quickly