

# Goal

This is an exploration of ‘out-of-the-box’ tables in Quarto. We compare the available packages to see which minimal effort tables one can produce in HTML and PDF output. Quarto uses a different formatting for [cross-referencing](#) which may cause some packages trouble. Please note that this is primarily an implementation of packages discussed in the [RMarkdown Cookbook](#).

To showcase the different tables we use the [palmerpenguins](#) data - because who doesn’t love penguins? It is by design that I used a dataset with too many columns to fit a single page. HTML output generally resolves the issues by creating slider divs, whereas PDF output at times struggles in unexpected ways. I believe it is good to see where issues may arise with ‘out-of-the-box’ solutions.

# knitr::kable()

This is a cross-reference to Table 1, rendered with the default package [knitr](#) version 1.41.

Table 1: knitr::kable()

Study	Sample Num- ID	Species	Region	Island	Stage	ID	Clutch Com- plea	Date	Culmen Length Egg (mm)	Culmen Depth (mm)	Flipper Length (mm)	Body Mass (g)	Sex	Delta		Comments
														15 N	13 C	
PAL0708	Adelie	Pen- guin (Py- goscelis adeliae)	Antarctica	Torgu	Adult	N1A	Yes	2007	39.1	18.7	181	3750	MALE	NA	NA	Not enough blood for isotopes.
									11-							
PAL0708	Adelie	Pen- guin (Py- goscelis adeliae)	Antarctica	Torgu	Adult	N1A	Yes	2007	39.5	17.4	186	3800	FEMALE	NA	NA	24.69454
									11-							
PAL0708	Adelie	Pen- guin (Py- goscelis adeliae)	Antarctica	Torgu	Adult	N2A	Yes	2007	40.3	18.0	195	3250	FEMALE	NA	NA	25.33302
									11-							
PAL0708	Adelie	Pen- guin (Py- goscelis adeliae)	Antarctica	Torgu	Adult	N2A	Yes	2007	NA	NA	NA	NA	NA	NA	NA	Adult not sampled.
									11-							

Study	Sample Num-ber	Species	Region	Island	Stage	Individual ID	Clutch Com-pleat ion	Date Egg	Culmen Length (mm)	Culmen Depth (mm)	Flipper Length (mm)	Body Mass (g)	Sex	Delta		Comments
														15 N	13 C	
PAL0708	508	Adelie	Anvers	Torg	Adult	N3A	Yes	2007	36.7	19.3	193	3450	FEMALE	NA	NA	NA
		Pen-guin (Py-goscelis adeliae)			1			11-16								25.32426
PAL0708	508	Adelie	Anvers	Torg	Adult	N3A	Yes	2007	39.3	20.6	190	3650	MALE	NA	NA	NA
		Pen-guin (Py-goscelis adeliae)			1			11-16								25.29805
PAL0708	708	Adelie	Anvers	Torg	Adult	N4A	No	2007	38.9	17.8	181	3625	FEMALE	NA	NA	Nest
		Pen-guin (Py-goscelis adeliae)			1			11-15								25.21799 never observed with full clutch.
PAL0708	808	Adelie	Anvers	Torg	Adult	N4A	No	2007	39.2	19.6	195	4675	MALE	NA	NA	Nest
		Pen-guin (Py-goscelis adeliae)			1			11-15								24.89958 never observed with full clutch.
PAL0708	908	Adelie	Anvers	Torg	Adult	N5A	Yes	2007	34.1	18.1	193	3475	NANA	NA	NA	No blood sample obtained.
		Pen-guin (Py-goscelis adeliae)			1			11-09								

Study	Sample Num-	Species	Region	Island	Stage	ID	Clutch Completion	Date Egg	Culmen Length (mm)	Culmen Depth (mm)	Flipper Length (mm)	Body Mass (g)	Delta		Comments	
													15 N	13 C		
PAL007	008	Adelie	Anvers	Travis	Adult	N5A2	Yes	2007	42.0	20.2	190	4250	NA	9.13362	-	No
		Pen-guin (Py-goscelis adeliae)			1 Egg Stage			11-09						25.09368		Pod sample obtained for sexing.

## kableExtra::kable()

This is a cross-reference to Table [1](#), rendered with the package [kableExtra](#) version 1.3.4.

Table 1: kableExtra::kable()

studyName	Sample Number	Species	Region	Island	Stage
PAL0708	1	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	2	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	3	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	4	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	5	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	6	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	7	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	8	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	9	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage
PAL0708	10	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stage

## **flextable::flextable()**

This is a cross-reference to Table [1](#), rendered with the package [flextable](#) version 0.8.3.

Table 1: flextable::flextable()

studyName	SampleSpecies Number	Region	Island	Stage	Individual ID	Clutch Comple- tion	Date Egg	Culm Leng (mm)
PAL0708	1Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N1A1	Yes	2007-11-11	39
PAL0708	2Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N1A2	Yes	2007-11-11	39
PAL0708	3Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N2A1	Yes	2007-11-16	40
PAL0708	4Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N2A2	Yes	2007-11-16	
PAL0708	5Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N3A1	Yes	2007-11-16	30
PAL0708	6Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N3A2	Yes	2007-11-16	39
PAL0708	7Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N4A1	No	2007-11-15	38
PAL0708	8Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N4A2	No	2007-11-15	39
PAL0708	9Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N5A1	Yes	2007-11-09	34
PAL0708	10Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stage	N5A2	Yes	2007-11-09	42



# huxtable::hux()

This is a cross-reference to Table 1, rendered with the package [huxtable](#) version 5.5.1.

Table 1: huxtable::hux()

Individual ID	Clutch Completion	Date Egg	Culmen Length (mm)	Culmen Depth (mm)	Flipper Length (mm)
N1A1	Yes	2007-11-11	39.1	18.7	180
N1A2	Yes	2007-11-11	39.5	17.4	180
N2A1	Yes	2007-11-16	40.3	18	190
N2A2	Yes	2007-11-16			
N3A1	Yes	2007-11-16	36.7	19.3	190
N3A2	Yes	2007-11-16	39.3	20.6	190
N4A1	No	2007-11-15	38.9	17.8	180
N4A2	No	2007-11-15	39.2	19.6	190
N5A1	Yes	2007-11-09	34.1	18.1	190
N5A2	Yes	2007-11-09	42	20.2	190

## DT::datatable()

This is a cross-reference to `?@tbl-DT`, rendered with the package [DT](#) version 0.26.

**i** Note

Only HTML

## **formattable::formattable()**

This is a cross-reference to **?@tbl-formattable**, rendered with the package [formattable](#) version 0.2.1.

Table 1: formattable::formattable()

studyName
Sample Number
Species
Region
Island
Stage
Individual ID
Clutch Completion
Date Egg
Culmen Length (mm)
Culmen Depth (mm)
Flipper Length (mm)
Body Mass (g)
Sex
12
Delta 15 N (o/oo)
Delta 13 C (o/oo)

## reactable::reactable()

This is a cross-reference to **?@tbl-reactable**, rendered with the package [reactable](#) version 0.4.1. [reactablefmtr](#) offers an extension of the syntax for styling - but not a standalone option.

**i** Note

Only HTML

## **rhandsontable::rhandsontable()**

This is a cross-reference to `?@tbl-rhandsontable`, rendered with the package [rhandsontable](#) version 0.3.8.

**i** Note

Only HTML

## **pixiedust**

Only works for output from the **broom** package, so not regular datasets.

# stargazer::stargazer

This is a cross-reference to Table 1, rendered with the package [stargazer](#) version 5.2.3.

**i** Note

**results:** **asis** (i.e., creates LaTeX output)

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail:  
marek.hlavac at gmail.com % Date and time: do, dec 15, 2022 - 16:17:01

Table 1: stargazer::stargazer()

Statistic	N	Mean	St. Dev.	Min	Max
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# xtable::xtable()

This is a cross-reference to Table 1, rendered with the package `xtable` version 1.8.4.

**i** Note

**results:** `asis` (i.e., creates LaTeX output)

% latex table generated in R 4.2.2 by xtable 1.8-4 package % Thu Dec 15 16:17:01 2022

Table 1: `xtable::xtable()`

	studyName	Sample Number	Species	Region	Island	Stage
1	PAL0708	1.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
2	PAL0708	2.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
3	PAL0708	3.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
4	PAL0708	4.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
5	PAL0708	5.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
6	PAL0708	6.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
7	PAL0708	7.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
8	PAL0708	8.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
9	PAL0708	9.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg
10	PAL0708	10.00	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg

## tangram::tangram()

This is a cross-reference to `?@tbl-tangram`, rendered with the package [tangram](#) version 0.8.1.

**i** Note

`results: markup` (i.e., creates md output)

Table 1: ?(caption)

studyName	Sample Number	Species	Region	Island	Stage
PAL0708	1	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	2	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	3	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	4	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	5	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	6	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	7	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	8	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	9	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg
PAL0708	10	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg

## ztable::ztable()

This is a cross-reference to `?@tbl-ztable`, rendered with the package [ztable](#) version 0.2.3.

Error

Could not get package to work - issue with 'list' output.

## condformat::condformat()

This is a cross-reference to `?@tbl-condformat`, rendered with the package [condformat](#) version 0.10.0.

**i** Note

Only HTML

## pander::pandoc.table()

This is a cross-reference to `?@tbl-pander`, rendered with the package [pander](#) version 0.6.5.

**i** Note

`results:` `markup` (i.e., creates md output)

Table 1: ?(caption)

studyName	Sample Number	Species	Region	Island
PAL0708	1	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	2	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	3	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	4	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	5	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	6	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	7	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	8	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	9	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen
PAL0708	10	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen

Table: Table continues below

Stage	Individual ID	Clutch Completion	Date Egg
Adult, 1 Egg Stage	N1A1	Yes	2007-11-11
Adult, 1 Egg Stage	N1A2	Yes	2007-11-11
Adult, 1 Egg Stage	N2A1	23 Yes	2007-11-16
Adult, 1 Egg Stage	N2A2	Yes	2007-11-16
Adult, 1 Egg Stage	N3A1	Yes	2007-11-16
Adult, 1 Egg Stage	N3A2	Yes	2007-11-16

## papaja::apa\_table()

This is a cross-reference to `?@tbl-papaja`, rendered with the package [papaja](#) version 0.1.1.

### Error

```
compilation failed- error Extra }, or forgotten \endgroup. 1.6308
...label{tbl-papaja}papaja::apa\_table() }}
```



## gt::gt()

This is a cross-reference to Table 1, rendered with the package [gt](#) version 0.8.0.

studyName	Sample Number	Species	Region	Island	Stage
PAL0708	1	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	2	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	3	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	4	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	5	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	6	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	7	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	8	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	9	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	10	Adelie Penguin ( <i>Pygoscelis adeliae</i> )	Anvers	Torgersen	Adult, 1 Egg Stag