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()

Clut	ch				Delta	a Delta	a
Com	- Culm	neGulm	da d	eBod	y 15	13	
Indiv ide a	l DateLeng	t D epti	hLengt	tlMas	s N	\mathbf{C}	
RegIonantage ID tion	Egg (mm)	(mm)	(mm)	(g)	Sex(o/o	o)o/o	o)Comment
Anv@rrgArselt,N1A1Yes	200739.1	18.7	181	3750	MANA	NA	Not
1	11-						enough
Egg	11						blood
Stage							for iso-
							topes.
Anv@erorgArdsett,N1A2Yes	200739.5	17.4	186	3800	FEN !.94 !	15 6 -	NA
1	11-					24.69	9454
Egg	11						
Stage							
Anv@corgAndselt,N2AlYes	200740.3	18.0	195	3250	FEM .46 2	№ 1 -	NA
1	11-					25.33	3302
Egg	16						
Stage							
Anv@eorgAndselt,N2A2Yes	2007NA	NA	NA	NA	NA NA	NA	Adult
1	11-						not
Egg	16						sam-
Stage							pled.
<u> </u>							•
	RegIslanSitage ID tion AnvirorgArdsult,N1A IYes 1 Egg Stage AnvirorgArdsult,N1A 2Yes 1 Egg Stage AnvirorgArdsult,N2A IYes 1 Egg Stage AnvirorgArdsult,N2A IYes 1 Egg Stage	Individual	Com- Culm-student DateLengt Dept. RegIonation Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Anv@ionation Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual Individual In	Com- Culm-Giulm-Filippe Dept-Lengt D	Com- Culm-Giulm-Gilpe-Bod Indiviple-al DateLengt Depth Lengt Mass RegIshar@tage ID tion Egg (mm) (mm) (mm) (g)	Com- Culme@iulme@iulmeBilippeBody 15 Individual DateLengt Dept Lengt Mass N RegIslan@tage ID tion Egg (mm) (mm) (mm) (g) Sex (o/or of	Com- Culm-diulm-dilipe-Body 15 13 13 14 15 15 13 15 15 15 15 15

	Clut	ch		Delta Delta
Sample	Com		nulm & nlipp	
Num-	Indiv ide ra	l DateLengtl		· ·
stud y M an S pecies	RegIonantage ID tion	$\operatorname{Egg}\left(\operatorname{mm}\right)\left(\operatorname{res}\right)$	mm) (mm)	${\rm (g)} {\rm Sex(o/oo)(o/oo)} \\ {\rm Commer}$
PAL0308 Adelie Penguin (Pygoscelis adeliae)	AnværegArdent,N3AYes 1 Egg Stage	200736.7 1 11- 16	9.3 193	3450 FENIAGE1 - NA 25.32426
PAL0 6 08 Adelie Penguin (Pygoscelis adeliae)	AnværegArdelt,N3A2Ves 1 Egg Stage	2007 3 9.3 2 11- 16	20.6 190	3650 MA &£ 6496 - NA 25.29805
PAL0708 Adelie Penguin (Pygoscelis adeliae)	Anv@rsrgArselt,N4A No 1 Egg Stage	2007 3 8.9 1 11- 15	7.8 181	3625 FEMA8718 - Nest 25.21799ver ob- served with full clutch.
PAL0 8 08 Adelie Penguin (Pygoscelis adeliae)	AnværegArstelt,N4A2No 1 Egg Stage	2007 3 9.2 1 11- 15	9.6 195	4675 MAP #6060 - Nest 24.89958ver observed with full clutch.
PAL0 9 08 Adelie Penguin (Pygoscelis adeliae)	Anv@rsrgArstelt,N5A1Yes 1 Egg Stage	200734.1 1 11- 09	8.1 193	3475 NA NA NA No blood sample obtained.

		Clute	ch				Delt	a Delt	a
Sample		Com	- Culm	neGulm	a de limb	eBod	y 15	13	
Num-	Indi	v ide al	DateLeng	t D epti	hLengt	Mas	s N	\mathbf{C}	
studbena Species	Reg Ish anStage ID	tion	Egg (mm)	(mm)	(mm)	(g)	Sex(o/o	o)o/o	o)Comment
PAL0008 Adelie	Anv@ergAndreht,N5A	\2\forall es	200742.0	20.2	190	4250) NA 9.13	362 -	No
Pen-	1		11-					25.09	9 36 8od
guin	Egg		09						sample
(Py-	Stage								ob-
goscelis									tained
adeliae)									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 (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	2	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	3	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	4	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	5	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	6	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	7	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	8	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	9	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta
PAL0708	10	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Sta

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 (m:
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	36
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 (mr
N1A1	Yes	2007-11-11	39.1	18.7	18
N1A2	Yes	2007-11-11	39.5	17.4	18
N2A1	Yes	2007-11-16	40.3	18	1
N2A2	Yes	2007-11-16			
N3A1	Yes	2007-11-16	36.7	19.3	1
N3A2	Yes	2007-11-16	39.3	20.6	1
N4A1	No	2007-11-15	38.9	17.8	1
N4A2	No	2007-11-15	39.2	19.6	1
N5A1	Yes	2007-11-09	34.1	18.1	1
N5A2	Yes	2007-11-09	42	20.2	19

DT::datatable()

This is a cross-reference to **?@tbl-DT**, rendered with the package **DT** version 0.26.



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 extention of the syntax for styling - but not a standalone option.

Note

Only HTML

rhandsontable::rhandsontable()

This is a cross-reference to **?@tbl-rhandsontable**, rendered with the package **rhandsontable** version 0.3.8.



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 - 16:21:05

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 x table 1.8-4 package % Thu Dec 15 16:21:05 2022

Table 1: xtable::xtable()

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

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.

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)		_

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 (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	2	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	3	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	4	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	5	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	6	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	7	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	8	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	9	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag
PAL0708	10	Adelie Penguin (Pygoscelis adeliae)	Anvers	Torgersen	Adult, 1 Egg Stag