

The title

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Abstract

One or two sentences providing a **basic introduction** to the field, comprehensible to a scientist in any discipline.

Two to three sentences of **more detailed background**, comprehensible to scientists in related disciplines.

One sentence clearly stating the **general problem** being addressed by this particular study.

One sentence summarizing the main result (with the words “**here we show**” or their equivalent).

Two or three sentences explaining what the **main result** reveals in direct comparison to what was thought to be the case previously, or how the main result adds to previous knowledge.

One or two sentences to put the results into a more **general context**.

Two or three sentences to provide a **broader perspective**, readily comprehensible to a scientist in any discipline.

Keywords: keywords

Word count: X

31

The title

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¹ Tragically this is no longer true. Many **kableExtra** functions now (as of Feb 2024) break spectacularly in papaja notebooks.

² This is a named footnote.

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Tables

Knitting R documents can render tables in several different forms. To start, you have
 your basic “console style.” This is more or less what you’d see in the console you just ran
 the table (or called the object) in an R script or directly in the console.

```
## # A tibble: 3 x 4
##   cyl mean.mpg sd.mpg n.models
```

³ Tragically this is no longer true. Many **kableExtra** functions now (as of Feb 2024) break spectacularly in papaja notebooks.

```

77 ##    <dbl>    <dbl>  <dbl>    <int>
78 ##  1      4     26.7   4.51      11
79 ##  2      6     19.7   1.45       7
80 ##  3      8     15.1   2.56      14

```

81 The `knitr` package contains the `kable()` function. Passing a dataframe into this
 82 function will produce a formatted table that's already pretty nice looking without needing
 83 additional modification. When you run the code chunk in R Studio, it is clearly different
 84 from the console version, but it's not exactly beautiful. However, that output that appears
 85 beneath your code chunk isn't the same as what you'll see when you actually knit it.

86 You don't need to do anything more than pipe the df to `kable()` to get this
 87 formatted table, but we can add optional arguments like `caption`.

Table 1

mpg stats by number of cylinders

cyl	mean.mpg	sd.mpg	n.models
4	26.66364	4.509828	11
6	19.74286	1.453567	7
8	15.10000	2.560048	14

88 From there we can add in many additional arguments to tweak the visuals of this
 89 already decently formatted table exactly to our preferences. Alternatively, we can use
 90 “wrapper” functions that add in a collection of tweaks for us, like the `apa_table()`
 91 function in `papaja`, which will knit the table in APA formatting.

92 In this example, rather than piping the df into the function (which we could have
 93 done), the df is saved as an object that is then used as the `data` argument. Because
 94 `apa_table()` is a wrapper, we can still use the same arguments with the basic `kable()`
 95 function, like `caption`.

Some wrapper functions, including `apa_table()`, rely on LaTeX formatting that can't render in R Studio. When you run the chunk in your R notebook, you'll just see a blank box. The APA formatted table will render in your Word or PDF document. Note that not all wrapper functions will have this "blank box problem." Other wrappers will not only not show up in R Studio, but will only render in either Word *or* PDF format.

Back to the basic kable, there is nearly unlimited customization you can employ, especially if you use the **kableExtra** package (which is exactly what it sounds like). Here are a handful of modifications I think you're most likely to want to know about:

1. Add a caption
2. Change column names
3. Specify column alignment
4. Format columns
5. Style table size and position
6. Make row- and column-specific tweaks
7. Group rows, columns, and cells
8. Add table (foot)notes

Many of the examples below are taken or adapted from the R Markdown Cookbook.

These tables modify column names and alignment identically but with slightly different syntax and add captions to describe each:

These tables specify format of numeric columns:

For the second half of the list (5-8), we need the **kableExtra** package. Most things that this package can do will work in both Word and PDF outputs, but Word does not support LaTeX formatting. As a result, the results are pretty iffy. Sticking with PDF output format is recommended. If you need to knit to a Word doc, refer to the package documentation for suggestions on how to do so.

This package includes the `kbl()` function, which is *identical* to `kable()`. If you have `kableExtra` loaded you can use either, but the advantage of using `kbl()` is that it will throw an obvious error if you don't have the package loaded, which you might not notice otherwise.

To use styling functions in the `kableExtra` package, you'll create a kable with `kable()` or `kbl()` and pipe (`%>%`) it into the style function. Examples in this section come from the `kableExtra` package documentation.

By default, knitr will place tables wherever it thinks the best place in your document for that table will be. This is often great, but sometimes it's a very bad guesser. It will also guess the size/scale your table should be. You can control these things yourself.

In Table 7, the `hold_position` style option “pins” the table where you call it. Most examples from here on will include this argument.

Table 8, shows the use of the `scale_down` option (with `hold_position`) to scale a wide table down to fit on the page. This can be used instead of or in addition to printing the table in landscape page format. See the `kableExtra` docs for how to do that.

You can also scale *up* a table to make a small/narrow table full width with either the `scale_up` option (Table 9) or `full_width` argument (Table 10).

When you have very long tables that would extend over multiple pages, use the `longtable` argument, usually in combination with the `repeat_header` option (Table 11).

Table 11

Use the 'longtable' argument in the kbl() to intelligently manage very long tables. Use the repeat header LaTeX option

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4

Table 11

Use the 'longtable' argument in the kbl() to intelligently manage very long tables. Use the repeat header LaTeX option (continued)

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
Merc 280C	17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4
Merc 450SE	16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
Merc 450SL	17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
Merc 450SLC	15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3
Cadillac Fleetwood	10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
Lincoln Continental	10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4
Chrysler Imperial	14.7	8	440.0	230	3.23	5.345	17.42	0	0	3	4
Fiat 128	32.4	4	78.7	66	4.08	2.200	19.47	1	1	4	1
Honda Civic	30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
Toyota Corolla	33.9	4	71.1	65	4.22	1.835	19.90	1	1	4	1
Toyota Corona	21.5	4	120.1	97	3.70	2.465	20.01	1	0	3	1
Dodge Challenger	15.5	8	318.0	150	2.76	3.520	16.87	0	0	3	2
AMC Javelin	15.2	8	304.0	150	3.15	3.435	17.30	0	0	3	2
Camaro Z28	13.3	8	350.0	245	3.73	3.840	15.41	0	0	3	4

Table 11

Use the 'longtable' argument in the kbl() to intelligently manage very long tables. Use the repeat header LaTeX option (continued)

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Pontiac Firebird	19.2	8	400.0	175	3.08	3.845	17.05	0	0	3	2
Fiat X1-9	27.3	4	79.0	66	4.08	1.935	18.90	1	1	4	1
Porsche 914-2	26.0	4	120.3	91	4.43	2.140	16.70	0	1	5	2
Lotus Europa	30.4	4	95.1	113	3.77	1.513	16.90	1	1	5	2
Ford Pantera L	15.8	8	351.0	264	4.22	3.170	14.50	0	1	5	4
Ferrari Dino	19.7	6	145.0	175	3.62	2.770	15.50	0	1	5	6
Maserati Bora	15.0	8	301.0	335	3.54	3.570	14.60	0	1	5	8
Volvo 142E	21.4	4	121.0	109	4.11	2.780	18.60	1	1	4	2
Mazda RX41	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag1	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 7101	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive1	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout1	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant1	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 3601	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D1	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 2301	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 2801	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
Merc 280C1	17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4
Merc 450SE1	16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
Merc 450SL1	17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
Merc 450SLC1	15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3

Table 11

Use the 'longtable' argument in the kbl() to intelligently manage very long tables. Use the repeat header LaTeX option (continued)

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Cadillac Fleetwood1	10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
Lincoln Continental1	10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4
Chrysler Imperial1	14.7	8	440.0	230	3.23	5.345	17.42	0	0	3	4
Fiat 1281	32.4	4	78.7	66	4.08	2.200	19.47	1	1	4	1
Honda Civic1	30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
Toyota Corolla1	33.9	4	71.1	65	4.22	1.835	19.90	1	1	4	1
Toyota Corona1	21.5	4	120.1	97	3.70	2.465	20.01	1	0	3	1
Dodge Challenger1	15.5	8	318.0	150	2.76	3.520	16.87	0	0	3	2
AMC Javelin1	15.2	8	304.0	150	3.15	3.435	17.30	0	0	3	2
Camaro Z281	13.3	8	350.0	245	3.73	3.840	15.41	0	0	3	4
Pontiac Firebird1	19.2	8	400.0	175	3.08	3.845	17.05	0	0	3	2
Fiat X1-91	27.3	4	79.0	66	4.08	1.935	18.90	1	1	4	1
Porsche 914-21	26.0	4	120.3	91	4.43	2.140	16.70	0	1	5	2
Lotus Europa1	30.4	4	95.1	113	3.77	1.513	16.90	1	1	5	2
Ford Pantera L1	15.8	8	351.0	264	4.22	3.170	14.50	0	1	5	4
Ferrari Dino1	19.7	6	145.0	175	3.62	2.770	15.50	0	1	5	6
Maserati Bora1	15.0	8	301.0	335	3.54	3.570	14.60	0	1	5	8
Volvo 142E1	21.4	4	121.0	109	4.11	2.780	18.60	1	1	4	2

By default, tables are aligned center on the page, but they can also be aligned left or right. Note that alignment does not apply to full width tables. Table 12 uses the `position = "left"` argument to align left. Oddly, aligning right in the same way doesn't work as expected. In theory you can "float right" rather than position right, but this can produce

errors. It’s unlikely you’ll need to right align a table though.

You can make style adjustments to the whole table (e.g., font fact, background color, bold/italic) or to specific rows and columns. Table ?? includes three `column_spec` functions to modify properties in columns 2, 6, and 9.

Table ?? includes two `row_spec` functions to modify properties in rows 1 and rows 3-5.

You can “group” rows and columns, basically equivalent to merging cells in a spreadsheet. This is commonly needed for multi-level headers or organizing non-rectangular data (like a lot of model output). Table ?? uses the `add_header_above()` function to do so.

You can group more than once and format these header rows individually. Use the total number of rows to specify how many columns to group, not the number of rows in the grouped row below it (Table 13).

Grouping rows is a little different. Table 14 uses the `pack_rows()` function to effectively add “header rows” throughout the table.

Alternatively, use `collapse_rows()` (Table 15) for more of a “merge cells” effect.

Finally, you can add notes or footnotes below your table with the `footnote()` function. Table 16 includes the ‘general’ argument for an unlabeled note and ‘number’, ‘alphabet’, and ‘symbol’ for footnotes with ordered labels.

There is **so much more** you can do with kables! ~~I am personally a huge fan of kables and the `kableExtra` package because it works beautifully with `papaja`⁴,~~ but you can also explore other packages for making beautiful tables:

- `flextable`

⁴ Tragically this is no longer true. Many `kableExtra` functions now (as of Feb 2024) break spectacularly in `papaja` notebooks.

- gt table
 - xtable
 - stargazer
- This one is designed to simplify tables for regression output

Figures and images

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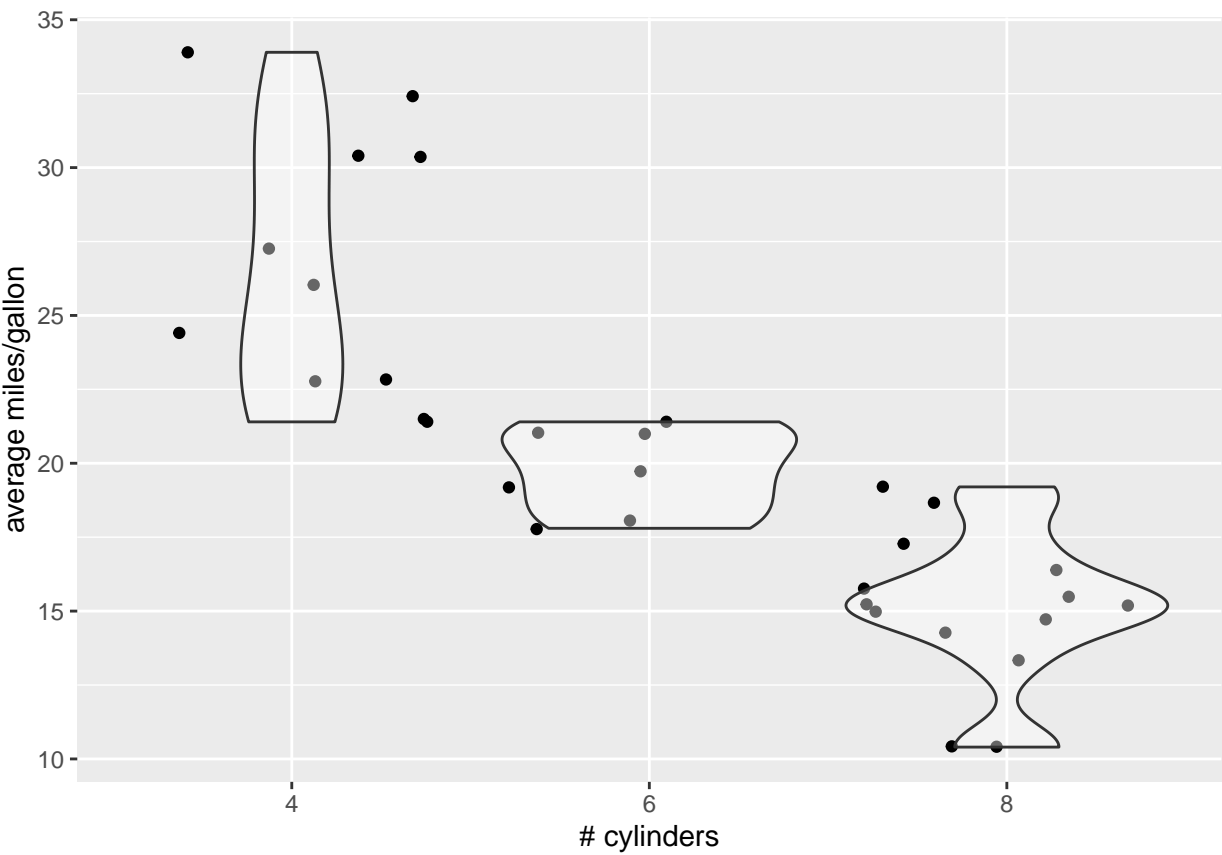


Figure 1. distribution of mpg by number of cylinders (2, 4, or 6)

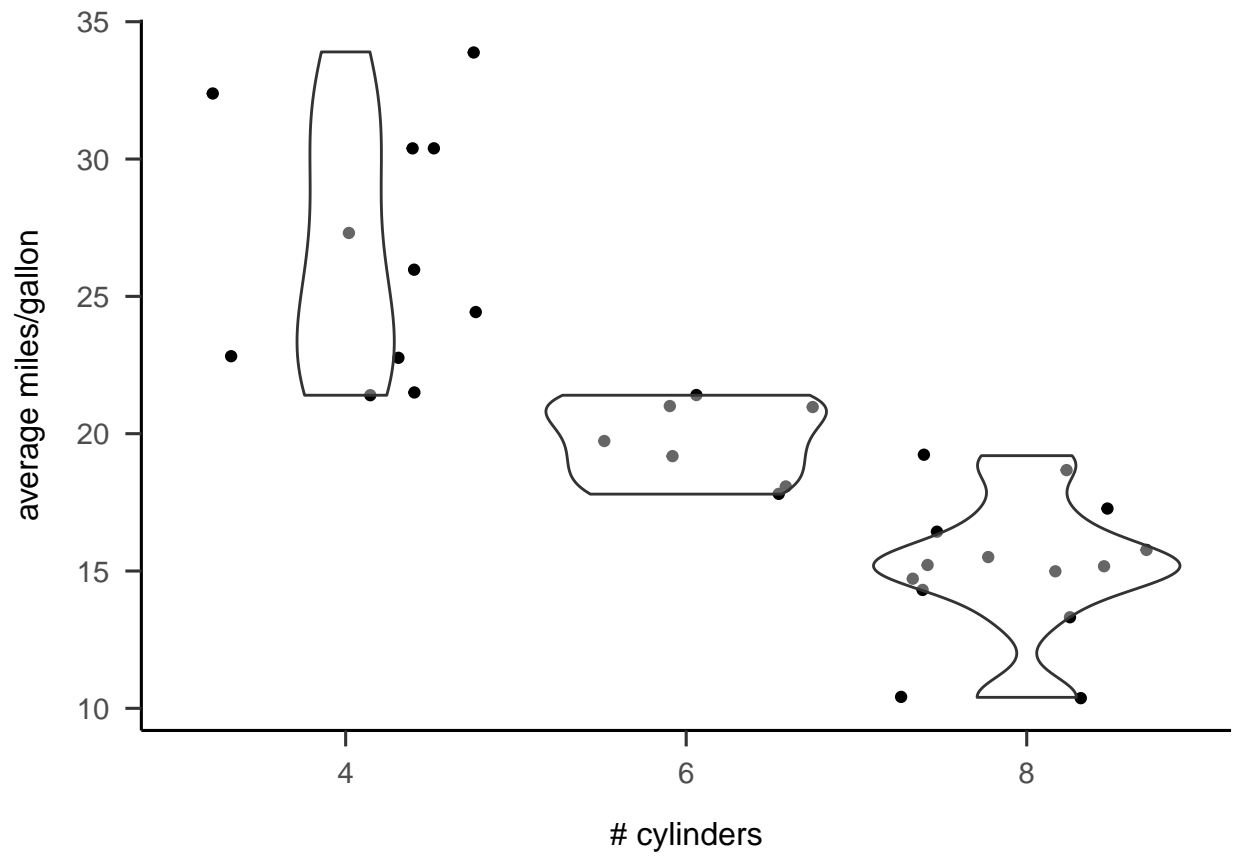


Figure 2. distribution of mpg by number of cylinders (2, 4, or 6)

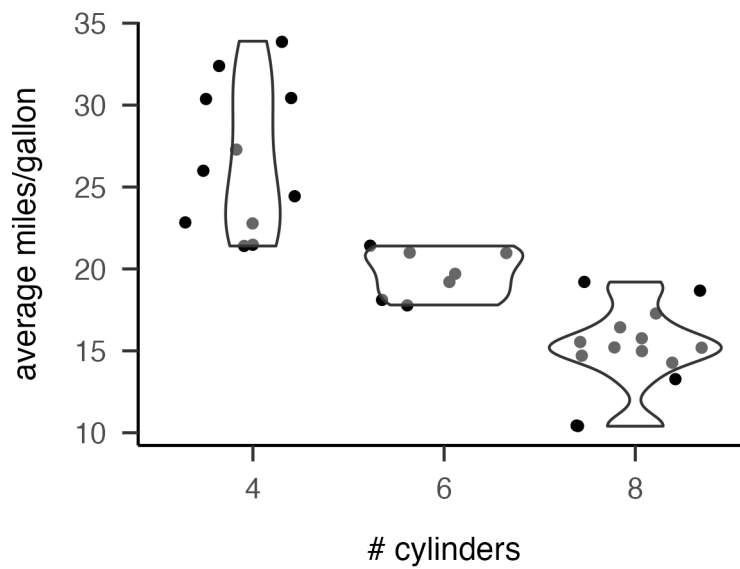


Figure 3. now we can import the saved figure too



Figure 4. yowza



Figure 5. yowza

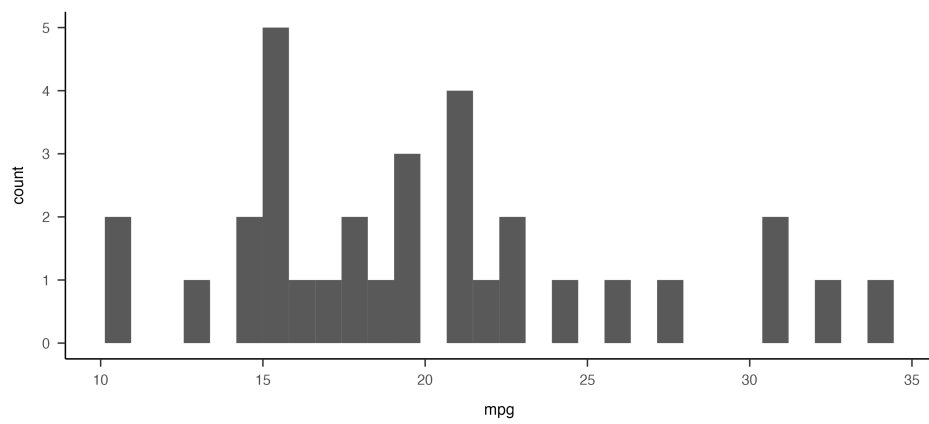


Figure 6. histogram of mpg values across all car models.

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 177 pellentesque massa. Aliquam nulla enim, venenatis eu mattis id, posuere sit amet lectus.
 178 Nullam auctor sit amet metus ut pharetra. Curabitur lorem libero, dignissim vitae dui ac,
 179 tristique hendrerit velit. Sed ac ultricies mi. Pellentesque sem tellus, blandit eget lacinia
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 219 lacus malesuada viverra. Nulla vel neque nisi. Cras mollis tortor id magna varius
 220 condimentum. Donec eu mauris pharetra risus sodales viverra. Nunc quis velit eleifend,
 221 porta arcu nec, tincidunt sapien. Donec at dolor massa. Nam blandit sollicitudin velit sit
 222 amet convallis. Vivamus at pretium tortor, ut pulvinar mi. Aenean vitae varius nulla. Sed
 223 sapien magna, porttitor quis urna sit amet, luctus iaculis tellus. Mauris vel sollicitudin
 224 quam, sed congue turpis. Pellentesque vitae ipsum a neque feugiat laoreet.

Chunk references

The average miles per gallon across cars with different numbers of cylinders is shown in Figure 2, as also summarized in Table ?? . Carbon production (e.g., see Figure 5 is an extremely unfortunate side effect of human industry that has immense consequences for the sustainability on life on Earth. Cars vary in their gasoline efficiency (Figure 6).

Morbi ut nulla non justo imperdiet pellentesque a placerat odio. Nulla mattis diam dolor, ac lacinia ipsum aliquet non. Morbi ac malesuada quam. Ut vel venenatis quam. Morbi dapibus mi quis leo imperdiet, at tempor nunc porttitor. Cras et tortor posuere, pretium dolor vel, sodales justo. Duis condimentum varius eros, id accumsan felis laoreet ut. Etiam ex nunc, ullamcorper eget condimentum sit amet, commodo eu erat. Donec id lacinia erat. Quisque ultricies sit amet justo vitae malesuada.

Nullam at lectus nisl. Donec id nisl odio. Sed egestas orci nec eleifend rhoncus. Sed suscipit vel tellus blandit consectetur. Quisque eu nibh arcu. Proin non libero facilisis, accumsan velit vel, porttitor ex. Aliquam venenatis, diam et auctor aliquet, nisl tortor ullamcorper sem, sed elementum libero sem volutpat arcu. Maecenas pharetra justo eros, ac sodales sem maximus sed. Donec cursus varius libero a condimentum. In eleifend sollicitudin tellus, in gravida risus vulputate ut. Aliquam erat volutpat. Pellentesque finibus erat nec efficitur elementum.

Cras venenatis, augue non tempor interdum, libero tellus vestibulum metus, ac sollicitudin risus neque non nibh. Nunc ac magna nisl. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aenean mauris tellus, vulputate a dictum eu, ullamcorper in dui. Suspendisse tempor, justo eu dictum convallis, elit velit tempor mi, id feugiat est erat sit amet lectus. Aenean vel libero eu enim lacinia condimentum ac ac augue. Morbi in justo eu nisl porta porta. Nullam vitae ligula ac ipsum mollis lacinia. Sed vulputate eros vel odio viverra porttitor. Vestibulum fermentum placerat velit, a egestas turpis ultricies quis. Vivamus at purus semper, luctus diam ut,

251 venenatis justo. Aliquam dignissim risus at ipsum pellentesque, in auctor felis vehicula.
252 Duis quis fringilla enim.

253 Sed aliquam turpis interdum erat elementum, ac semper ipsum tempor. Vivamus nisi
254 massa, pulvinar quis dapibus in, egestas faucibus lectus. Nam eleifend massa urna. Integer
255 placerat, lacus id molestie maximus, tortor ante imperdiet ligula, id scelerisque arcu diam
256 et erat. Aenean hendrerit nibh ullamcorper, consequat eros ultrices, fringilla libero. Morbi
257 a metus non lacus imperdiet euismod. Duis a lectus nec purus maximus consectetur.
258 Curabitur feugiat risus orci, ut consequat nulla facilisis at. Cras varius tincidunt placerat.
259 Duis gravida odio sit amet sapien ultrices, vitae vulputate elit imperdiet. Pellentesque
260 justo nulla, tincidunt id mauris sit amet, volutpat ornare sapien.

261 Quisque at elementum nisi, ut euismod dolor. Lorem ipsum dolor sit amet,
262 consectetur adipiscing elit. Maecenas ultrices tempus sem, a finibus dui dignissim vel.
263 Aliquam commodo maximus lectus id cursus. Class aptent taciti sociosqu ad litora
264 torquent per conubia nostra, per inceptos himenaeos. Morbi vitae elit mi. Aliquam
265 ultricies risus magna, id vestibulum justo pretium vitae. Class aptent taciti sociosqu ad
266 litora torquent per conubia nostra, per inceptos himenaeos. Cras ornare ligula ligula, at
267 vehicula magna laoreet vel. Donec semper quam vitae eros consequat, id auctor tellus
268 aliquet. Aliquam eget vestibulum eros. Integer hendrerit in turpis eu elementum. Nunc
269 eget elementum massa.

270 Nullam ultricies tortor auctor ultricies convallis. Phasellus eu ligula tincidunt, facilisis
271 arcu ac, tincidunt mi. Maecenas gravida facilisis nisl nec pulvinar. Integer dui dui, dictum
272 vel velit et, posuere tempus orci. Cras erat ex, venenatis eu nisi eu, congue aliquet dui.
273 Pellentesque dignissim auctor mauris in suscipit. Vivamus convallis fringilla ante ac
274 molestie. Ut pretium fringilla molestie. Nullam maximus elit id justo convallis cursus.
275 Phasellus sagittis quam aliquam fermentum mollis. Orci varius natoque penatibus et
276 magnis dis parturient montes, nascetur ridiculus mus. Phasellus vitae ultricies est. Quisque

277 eleifend mauris enim. Sed sed egestas est. Donec pretium risus orci, non placerat elit
278 tempus at.

279 Maecenas viverra nulla sed justo tincidunt porta. In non suscipit lacus. Duis sapien
280 nulla, cursus nec turpis sed, faucibus imperdiet tortor. Sed euismod dictum diam nec
281 pellentesque. Ut finibus eget mauris ac vulputate. Duis luctus cursus finibus. Vivamus ac
282 purus tincidunt, interdum leo nec, ultrices ante. Suspendisse velit sem, tincidunt sit amet
283 porta eu, commodo a ligula. Etiam quis ligula non purus sollicitudin faucibus at et massa.
284 Praesent fringilla turpis et turpis convallis blandit. Curabitur et risus non sapien blandit
285 commodo. Nulla sodales gravida erat, sed fringilla metus imperdiet ac. Sed interdum
286 gravida leo vitae luctus.

287 Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus
288 mus. Nam quam libero, porttitor ac elit sit amet, condimentum sagittis diam. Morbi
289 luctus, diam posuere tempor imperdiet, nisl magna commodo orci, nec sagittis risus lacus
290 eget purus. Sed vel neque feugiat, luctus turpis vitae, volutpat arcu. Nulla facilisi.
291 Curabitur quis nunc fermentum tellus maximus bibendum. Quisque porttitor id arcu eu
292 imperdiet.

References

Table 2

Change each column name and text alignments, each with a list of strings.

Sepal Length	Sepal Width	Petal Length	Petal Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa
5.4	3.4	1.7	0.2	setosa
5.1	3.7	1.5	0.4	setosa
4.6	3.6	1.0	0.2	setosa
5.1	3.3	1.7	0.5	setosa
4.8	3.4	1.9	0.2	setosa
5.0	3.0	1.6	0.2	setosa
5.0	3.4	1.6	0.4	setosa

Table 3

Use 'gsub' function to replace periods with spaces and change text alignments with a single 'shortcut' string.

Sepal Length	Sepal Width	Petal Length	Petal Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa
5.4	3.4	1.7	0.2	setosa
5.1	3.7	1.5	0.4	setosa
4.6	3.6	1.0	0.2	setosa
5.1	3.3	1.7	0.5	setosa
4.8	3.4	1.9	0.2	setosa
5.0	3.0	1.6	0.2	setosa

Table 4

All numeric data in all columns display at most 4 decimal places

X1	X2	X3
0.9148	1e+03	955.9356
0.9371	1e+05	47.8847
0.2861	1e+07	-1104.5994

Table 5

Round columns to 5, 0, and 2 digits (respectively).

X1	X2	X3
0.91481	1e+03	955.94
0.93708	1e+05	47.88
0.28614	1e+07	-1104.60

Table 6

Round all data to max 3 decimal places and do not use scientific notation.

X1	X2	X3
0.915	1,000	955.936
0.937	100,000	47.885
0.286	10,000,000	-1,104.599

Table 7

Table will appear exactly where you call it.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440

Table 8

When you have a wide table that will normally go out of the page, and you want to scale down the table to fit the page, you can use the scale down option.

	mpg	cyl	disp	hp	drat	wt	mpg	cyl	disp	hp	drat	wt	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620	21.0	6	160	110	3.90	2.620	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	21.0	6	160	110	3.90	2.875	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320	22.8	4	108	93	3.85	2.320	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	21.4	6	258	110	3.08	3.215	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440	18.7	8	360	175	3.15	3.440	18.7	8	360	175	3.15	3.440

Table 9

Use the scale up option to stretch to full page width.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440

Table 10

Stretch a small table to fit the page with the full width option.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440

Table 12

Align your table (not the text, the whole table), 'left' or 'center' (the default) with the position argument.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440

Table 13

Group multiple times and format these header rows individually.

	Group 6						
	Group 4				Group 5		
	Group 1		Group 2		Group 3		
	mpg	cyl	disp	hp	drat	wt	
Mazda RX4	21.0	6	160	110	3.90	2.620	
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	
Datsun 710	22.8	4	108	93	3.85	2.320	
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	
Hornet Sportabout	18.7	8	360	175	3.15	3.440	

Table 14

Group rows using packing.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160.0	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875
Datsun 710	22.8	4	108.0	93	3.85	2.320
Group 1						
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440
Valiant	18.1	6	225.0	105	2.76	3.460
Duster 360	14.3	8	360.0	245	3.21	3.570
Group 2						
Merc 240D	24.4	4	146.7	62	3.69	3.190
Merc 230	22.8	4	140.8	95	3.92	3.150
Merc 280	19.2	6	167.6	123	3.92	3.440

Table 15

Collapse rows for more of a 'merge cells' effect.

C1	C2	C3	C4
a	c	1	0
		2	1
		3	0
		4	0
		5	0
		6	0
		7	1
	d	8	1
		9	1
		10	1
b	c	11	0
		12	1
	d	13	0
		14	1
		15	1

Table 16

Add unordered (general) and ordered footnotes.

	mpg	cyl	disp	hp	drat	wt
Mazda RX4	21.0	6	160	110	3.90	2.620
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875
Datsun 710	22.8	4	108	93	3.85	2.320
Hornet 4 Drive	21.4	6	258	110	3.08	3.215
Hornet Sportabout	18.7	8	360	175	3.15	3.440

Note:

Here is a general comments of the table.

¹ Footnote 1;

² Footnote 2;

^a Footnote A;

^b Footnote B;

* Footnote Symbol 1;

† Footnote Symbol 2