officedown Example

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# Prerequisites

This is a *sample* book written with R package **bookdown** and R package **officedown**.

The **officedown** package can be installed from CRAN or Github:

install.packages("officedown")  
# remotes::install\_github("davidgohel/officedown")

# Introduction

ft\_link <- fp\_text(font.size = 9, italic = TRUE, color = "#C32900", font.family = "Cambria")

The purpose of this bookdown is to test the functionality of the officedown package. It contains texts of no interest but illustrates most of the functions of the package.

## List demo

* This is a linked reference to Chapter [2.1](#lists).
* This is a linked reference to Chapter [4](#tables).
* Figures and tables can have auto-numbered captions that can also be cross referenced:
  + This is a linked reference to a figure: [1](#ts-plot), its number is computed by Word and it’s linked to the corresponding graphic when clicking on it.
  + This is a linked reference to a table: [1](#mtcars), its number is computed by Word and it’s linked to the corresponding table when clicking on it.

1. An item
2. An item
   1. An item
      1. An item
      2. An item
   2. An item
3. An item

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# Tables

This is famous mtcars dataset:

head(dat, n = 10)

Table 1: mtcars

| car | 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 |
| 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 |

This is famous iris dataset:

head(iris)

Table 2: iris

| 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 |

This a flextable:

if(require("flextable")){  
 ft <- flextable(head(mtcars, n = 10))  
 ft <- fontsize(ft, size = 9, part = "all")  
 ft <- compose(x = ft, j = "mpg",  
 value = as\_paragraph(  
 value = lollipop(value = mpg, min = 0, max = 30, positivecol = "#DD2233", rangecol = "#DD2233")  
 ))  
 ft <- compose(x = ft, j = "drat",  
 value = as\_paragraph(  
 value = minibar(value = drat, max = 6, barcol = "#DD3322")  
 ))  
 ft <- compose(x = ft, j = "qsec",  
 value = as\_paragraph(  
 value = linerange(value = qsec)  
 ))  
 ft <- set\_table\_properties(ft, layout = "autofit")  
 ft  
 }

## Loading required package: flextable

Table 1: flextable

| mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 6 | 160.0 | 110 |  | 2.620 |  | 0 | 1 | 4 | 4 |
|  | 6 | 160.0 | 110 |  | 2.875 |  | 0 | 1 | 4 | 4 |
|  | 4 | 108.0 | 93 |  | 2.320 |  | 1 | 1 | 4 | 1 |
|  | 6 | 258.0 | 110 |  | 3.215 |  | 1 | 0 | 3 | 1 |
|  | 8 | 360.0 | 175 |  | 3.440 |  | 0 | 0 | 3 | 2 |
|  | 6 | 225.0 | 105 |  | 3.460 |  | 1 | 0 | 3 | 1 |
|  | 8 | 360.0 | 245 |  | 3.570 |  | 0 | 0 | 3 | 4 |
|  | 4 | 146.7 | 62 |  | 3.190 |  | 1 | 0 | 4 | 2 |
|  | 4 | 140.8 | 95 |  | 3.150 |  | 1 | 0 | 4 | 2 |
|  | 6 | 167.6 | 123 |  | 3.440 |  | 1 | 0 | 4 | 4 |

# Graphics

year <- function(x) as.POSIXlt(x)$year + 1900  
ggplot(economics, aes(date, unemploy / pop)) +  
 geom\_line() + theme\_minimal()

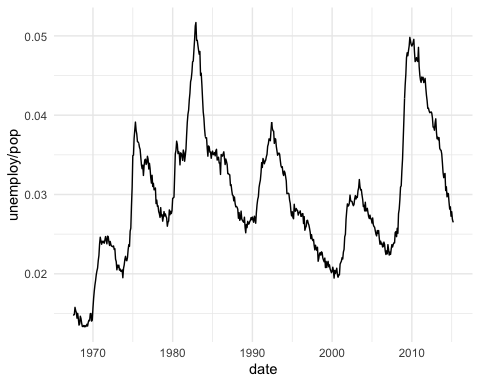


Figure 1: economics plot

Math latex in captions is supported:

ggplot(mpg, aes(displ, cty, color = trans)) + geom\_point() + theme\_minimal()

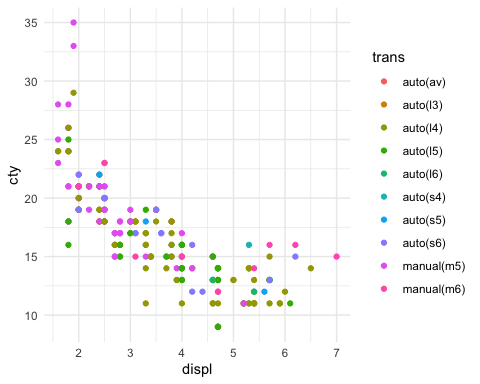


Figure 2: