Modul 7

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ ggplot2 3.3.6 ✔ purrr 0.3.5   
## ✔ tibble 3.1.8 ✔ dplyr 1.0.10  
## ✔ tidyr 1.2.1 ✔ stringr 1.4.1   
## ✔ readr 2.1.3 ✔ forcats 0.5.2   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(tibble)  
library(dslabs)  
data(murders)

## Nomor 1

murders\_tibble = as\_tibble(murders)

## Nomor 2

as\_tibble(murders) %>% group\_by(region)

## # A tibble: 51 × 5  
## # Groups: region [4]  
## state abb region population total  
## <chr> <chr> <fct> <dbl> <dbl>  
## 1 Alabama AL South 4779736 135  
## 2 Alaska AK West 710231 19  
## 3 Arizona AZ West 6392017 232  
## 4 Arkansas AR South 2915918 93  
## 5 California CA West 37253956 1257  
## 6 Colorado CO West 5029196 65  
## 7 Connecticut CT Northeast 3574097 97  
## 8 Delaware DE South 897934 38  
## 9 District of Columbia DC South 601723 99  
## 10 Florida FL South 19687653 669  
## # … with 41 more rows

## Nomor 3

murders %>% .$population %>% log %>% mean %>% exp

## [1] 3675209

## Nomor 4

a = 1  
b = 100  
n = a:b  
s\_n = function(n){  
 x = a:b  
 x = x+x  
}  
s\_n\_2 = function(n){  
 x = a:b  
 x = x+x  
 x = x^2  
}  
my\_df <- data.frame(n,s\_n(n),s\_n\_2(n))  
my\_df

## n s\_n.n. s\_n\_2.n.  
## 1 1 2 4  
## 2 2 4 16  
## 3 3 6 36  
## 4 4 8 64  
## 5 5 10 100  
## 6 6 12 144  
## 7 7 14 196  
## 8 8 16 256  
## 9 9 18 324  
## 10 10 20 400  
## 11 11 22 484  
## 12 12 24 576  
## 13 13 26 676  
## 14 14 28 784  
## 15 15 30 900  
## 16 16 32 1024  
## 17 17 34 1156  
## 18 18 36 1296  
## 19 19 38 1444  
## 20 20 40 1600  
## 21 21 42 1764  
## 22 22 44 1936  
## 23 23 46 2116  
## 24 24 48 2304  
## 25 25 50 2500  
## 26 26 52 2704  
## 27 27 54 2916  
## 28 28 56 3136  
## 29 29 58 3364  
## 30 30 60 3600  
## 31 31 62 3844  
## 32 32 64 4096  
## 33 33 66 4356  
## 34 34 68 4624  
## 35 35 70 4900  
## 36 36 72 5184  
## 37 37 74 5476  
## 38 38 76 5776  
## 39 39 78 6084  
## 40 40 80 6400  
## 41 41 82 6724  
## 42 42 84 7056  
## 43 43 86 7396  
## 44 44 88 7744  
## 45 45 90 8100  
## 46 46 92 8464  
## 47 47 94 8836  
## 48 48 96 9216  
## 49 49 98 9604  
## 50 50 100 10000  
## 51 51 102 10404  
## 52 52 104 10816  
## 53 53 106 11236  
## 54 54 108 11664  
## 55 55 110 12100  
## 56 56 112 12544  
## 57 57 114 12996  
## 58 58 116 13456  
## 59 59 118 13924  
## 60 60 120 14400  
## 61 61 122 14884  
## 62 62 124 15376  
## 63 63 126 15876  
## 64 64 128 16384  
## 65 65 130 16900  
## 66 66 132 17424  
## 67 67 134 17956  
## 68 68 136 18496  
## 69 69 138 19044  
## 70 70 140 19600  
## 71 71 142 20164  
## 72 72 144 20736  
## 73 73 146 21316  
## 74 74 148 21904  
## 75 75 150 22500  
## 76 76 152 23104  
## 77 77 154 23716  
## 78 78 156 24336  
## 79 79 158 24964  
## 80 80 160 25600  
## 81 81 162 26244  
## 82 82 164 26896  
## 83 83 166 27556  
## 84 84 168 28224  
## 85 85 170 28900  
## 86 86 172 29584  
## 87 87 174 30276  
## 88 88 176 30976  
## 89 89 178 31684  
## 90 90 180 32400  
## 91 91 182 33124  
## 92 92 184 33856  
## 93 93 186 34596  
## 94 94 188 35344  
## 95 95 190 36100  
## 96 96 192 36864  
## 97 97 194 37636  
## 98 98 196 38416  
## 99 99 198 39204  
## 100 100 200 40000

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.