Adding a table of contents

REPORTING WITH R MARKDOWN



Amy Peterson

Head of Core Curriculum at DataCamp



Table of contents

```
1 ---
2 title: "Investment Report"
3 output:
4    html_document:
5    toc: true
6 date: "`r format(Sys.time(), '%d %B %Y')`"
7 ---
```

Investment Report

08 May 2020

- Datasets
 - Investment Annual Summary
 - Investment Projects from the 2012 to 2018 Fiscal Years
 - Investment Projects in 2018

TOC depth

```
title: "Investment Report"
     output:
       html_document:
       toc: true
      toc_depth: 2
    date: "`r format(Sys.time(), '%d %B %Y')`"
 9
     ```{r setup, include = FALSE}
10
 knitr::opts_chunk$set(fig.align = 'center', echo = TRUE)
12
13
     ```{r data, include = FALSE}
14
    library(readr)
    library(dplyr)
    library(ggplot2)
18
    investment_annual_summary <- read_csv("https://assets.datacamp.com/</pre>
     production/repositories/5756/datasets/
     d0251f26117bbcf0ea96ac276555b9003f4f7372/investment_annual_summary.csv")
    investment_services_projects <- read_csv("https://assets.datacamp.com/</pre>
     production/repositories/5756/datasets/
     bcb2e39ecbe521f4b414a21e35f7b8b5c50aec64/
     investment_services_projects.csv")
21
22
23
     ## Datasets
25
    ### Investment Annual Summary
    The `investment_annual_summary` dataset provides a summary of the
```

Investment Report

08 May 2020

Datasets

Datasets

Investment Annual Summary



Number sections

```
1 ---
2 title: "Investment Report"
3 output:
4    html_document:
5    toc: true
6    toc_depth: 2
7    number_sections: true
8 date: "`r format(Sys.time(), '%d %B %Y')`"
9 ---
```

Investment Report

08 May 2020

- 0.1 Datasets
 - 0.1.1 Investment Annual Summary
 - 0.1.2 Investment Projects from the 2012 to 2018 Fiscal Years
 - 0.1.3 Investment Projects in 2018

Number sections

```
title: "Investment Report"
    output:
      html_document:
      toc: true
     toc_depth: 2
     number_sections: true
    date: "`r format(Sys.time(), '%d %B %Y')`"
10
    ```{r setup, include = FALSE}
11
 knitr::opts_chunk$set(fig.align = 'center', echo = TRUE)
13
14
     ```{r data, include = FALSE}
    library(readr)
    library(dplyr)
    library(qqplot2)
19
    investment_annual_summary <- read_csv("https://assets.datacamp.com/</pre>
    production/repositories/5756/datasets/
    d0251f26117bbcf0ea96ac276555b9003f4f7372/investment_annual_summary.csv")
    investment_services_projects <- read_csv("https://assets.datacamp.com/</pre>
    production/repositories/5756/datasets/
    bcb2e39ecbe521f4b414a21e35f7b8b5c50aec64/investment_services_projects.csv")
22
23
     ## Datasets
26
    ### Investment Annual Summary
```

Investment Report

08 May 2020

- 0.1 Datasets
 - 0.1.1 Investment Annual Summary
 - 0.1.2 Investment Projects from the 2012 to 2018 Fiscal Years
 - 0.1.3 Investment Projects in 2018

TOC float

```
1 ---
2 title: "Investment Report"
3 output:
4    html_document:
5    toc: true
6    toc_float: true
7    toc_depth: 3
8 date: "`r format(Sys.time(), '%d %B %Y')`"
9 ---
```

```
investment_report.Rmd
                                                                                      Dark Mode
     title: "Investment Report"
     output:
       html_document:
         toc: true
         toc_float: true
         toc_depth: 3
     date: "'r format(Sys.time(), '%d %B %Y')'"
 10
      ```{r setup, include = FALSE}
 knitr::opts_chunk$set(fig.align = 'center', echo = TRUE)
 13
 14
     ```{r data, include = FALSE}
     library(readr)
     library(dplyr)
     library(ggplot2)
 19
     investment_annual_summary <- read_csv("https://assets.datacamp.com/production/
      repositories/5756/datasets/d0251f26117bbcf0ea96ac276555b9003f4f7372/
      investment_annual_summary.csv")
 21 investment_services_projects <- read_csv("https://assets.datacamp.com/production/
      repositories/5756/datasets/bcb2e39ecbe521f4b414a21e35f7b8b5c50aec64/
      investment_services_projects.csv")
 22
 23
 24
     ## Datasets
 25
     ### Investment Annual Summary
     The 'investment_annual_summary' dataset provides a summary of the dol
                                                                                 ∧ Knit HTML
      provided to each region for each fiscal year, from 2012 to 2018
```

TOC float: collapsed

```
1 ---
2 title: "Investment Report"
3 output:
4    html_document:
5    toc: true
6    toc_float:
7    collapsed: false
8    toc_depth: 3
9 date: "`r format(Sys.time(), '%d %B %Y')`"
---
```

```
Dark Mode
investment_report.Rmd
     title: "Investment Report"
     output:
       html_document:
          toc: true
         toc_float:
          collapsed: false
         toc_depth: 3
     date: "'r format(Sys.time(), '%d %B %Y')'"
 11
      ```{r setup, include = FALSE}
 knitr::opts_chunk$set(fig.align = 'center', echo = TRUE)
14
 15
      ```{r data, include = FALSE}
     library(readr)
     library(dplyr)
     library(ggplot2)
 21 investment_annual_summary <- read_csv("https://assets.datacamp.com/production/
      repositories/5756/datasets/d0251f26117bbcf0ea96ac276555b9003f4f7372/
      investment_annual_summary.csv")
 22 investment_services_projects <- read_csv("https://assets.datacamp.com/production/</pre>
      repositories/5756/datasets/bcb2e39ecbe521f4b414a21e35f7b8b5c50aec64/
      investment_services_projects.csv")
 23
 24
     ## Datasets
    ### Investment Annual Summary
 28 The 'investment annual summary' dataset provides a summary of the dol
```

TOC float: smooth scroll

```
1 ---
2 title: "Investment Report"
3 output:
4    html_document:
5    toc: true
6    toc_float:
7         collapsed: false
8         smooth_scroll: false
9    toc_depth: 3
10 date: "`r format(Sys.time(), '%d %B %Y')`"
11 ---
```

```
Dark Mode
investment_report.Rmd
     title: "Investment Report"
     output:
       html_document:
         toc: true
         toc_float:
           collapsed: false
           smooth_scroll: false
         toc_depth: 3
     date: "'r format(Sys.time(), '%d %B %Y')'"
 12
      ```{r setup, include = FALSE}
 knitr::opts_chunk$set(fig.align = 'center', echo = TRUE)
 15
 16
 ``{r data, include = FALSE}
 library(readr)
 library(dplyr)
 library(ggplot2)
 investment_annual_summary <- read_csv("https://assets.datacamp.com/production/
 repositories/5756/datasets/d0251f26117bbcf0ea96ac276555b9003f4f7372/
 investment_annual_summary.csv")
 23 investment_services_projects <- read_csv("https://assets.datacamp.com/production/
 repositories/5756/datasets/bcb2e39ecbe521f4b414a21e35f7b8b5c50aec64/
 investment_services_projects.csv")
 24
 25
 26
 ## Datasets
 27
 5 Knit HTML
 28 ### Investment Annual Summary
```

#### Summary

- toc
- toc\_depth
  - HTML default: 3
  - PDF default: 2
- number\_sections

#### **HTML**

- toc\_float
  - collapsed
  - o smooth\_scroll

# Let's practice!

REPORTING WITH R MARKDOWN



# Creating a report with a parameter

REPORTING WITH R MARKDOWN



Amy Peterson

Head of Core Curriculum at DataCamp



#### **Parameters**

- Create reports for different countries
- Add inputs to the YAML header

#### Adding a parameter

```
1 ---
2 title: "Investment Report"
3 output:
4 html_document:
5 | toc: true
6 | toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 | country: Indonesia
10 ---
```



```
```{r indonesia-investment-projects}
42
    indonesia_investment_projects <- investment_services_projects %>%
43
      filter(country == "Indonesia")
44
45
    ggplot(indonesia_investment_projects, aes(x = date_disclosed, y =
46
    total_investment, color = status)) +
      geom_point() +
47
      labs(
48
49
        title = "Investment Services Projects in Indonesia",
50
        x = "Date Disclosed",
51
         y = "Total IFC Investment in Dollars in Millions"
52
53
```

```
```{r country-investment-projects}
42
 country_investment_projects <- investment_services_projects %>%
43
 filter(country == "Indonesia")
44
45
 ggplot(country_investment_projects, aes(x = date_disclosed, y =
46
 total_investment, color = status)) +
 geom_point() +
47
48
 labs(
49
 title = "Investment Services Projects in Indonesia",
50
 x = "Date Disclosed",
51
 y = "Total IFC Investment in Dollars in Millions"
52
53
```

```
```{r country-investment-projects}
42
43
    country_investment_projects <- investment_services_projects %>%
      filter(country == "Indonesia")
44
45
46
    ggplot(country_investment_projects, aes(x = date_disclosed, y =
    total_investment, color = status)) +
      geom_point() +
47
48
      labs(
49
         title = "Investment Services Projects in Indonesia",
50
        x = "Date Disclosed",
51
         y = "Total IFC Investment in Dollars in Millions"
52
53
```

```
```{r country-investment-projects}
42
 country_investment_projects <- investment_services_projects %>%
43
 filter(country == params$country)
44
45
46
 ggplot(country_investment_projects, aes(x = date_disclosed, y =
 total_investment, color = status)) +
 geom_point() +
47
48
 labs(
49
 title = "Investment Services Projects in Indonesia",
50
 x = "Date Disclosed",
51
 y = "Total IFC Investment in Dollars in Millions"
52
53
```

```
```{r country-investment-projects}
42
43
    country_investment_projects <- investment_services_projects %>%
      filter(country == params$country)
44
45
46
    ggplot(country_investment_projects, aes(x = date_disclosed, y =
    total_investment, color = status)) +
      geom_point() +
47
      labs(
48
         title = "Investment Services Projects in Indonesia"
49
50
        x = "Date Disclosed",
51
         y = "Total IFC Investment in Dollars in Millions"
52
53
```

```
```{r country-investment-projects}
42
43
 country_investment_projects <- investment_services_projects %>%
 filter(country == params$country)
44
45
46
 ggplot(country_investment_projects, aes(x = date_disclosed, y =
 total_investment, color = status)) +
 geom_point() +
47
 labs(
48
 title = "Investment Services Projects",
49
50
 x = "Date Disclosed",
 y = "Total IFC Investment in Dollars in Millions"
51
52
53
```

## Reviewing the text

- 39 ### Investment Projects in Indonesia
- The `investment\_services\_projects` dataset provides information about each investment project in Indonesia from 2012 to 2018. Information listed includes the project name, company name, sector, project status, and investment amounts.

### Reviewing the text

39 ### Investment Projects in `r params\$country`
40 The `investment\_services\_projects` dataset provides information
about each investment project in `r params\$country` from 2012 to
2018. Information listed includes the project name, company name,
sector, project status, and investment amounts.

#### Reviewing the YAML header

```
1 ---
2 title: "Investment Report for Projects in `r params$country`"
3 output:
4 html_document:
5 toc: true
6 toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 country: Indonesia
10 ---
```

## Knitting the report

```
1 ---
2 title: "Investment Report for Projects in `r params$country`"
3 output:
4 html_document:
5 toc: true
6 toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 country: Turkey
10 ---
```

Datasets

#### **Investment Report for Projects in Turkey**

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

The investment\_annual\_summary dataset provides a summary of the dollars in millions provided to each region for each fiscal year, from 2012 to 2018.

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, color = region))
+
 geom_line() +
 labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```

## Knitting a new report

```
1 ---
2 title: "Investment Report for Projects in `r params$country`"
3 output:
4 html_document:
5 toc: true
6 toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 country: Philippines
10 ---
```

Datasets

#### Investment Report for Projects in Philippines

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

The investment\_annual\_summary dataset provides a summary of the dollars in millions provided to each region for each fiscal year, from 2012 to 2018.

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, color = region))
+
 geom_line() +
 labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```

# Let's practice!

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## Multiple parameters

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Amy Peterson

Head of Core Curriculum at DataCamp



## Fiscal year

- 2012 to 2018 fiscal years
- July 1st (previous year) June 30th (year of interest)

#### Adding a parameter for fiscal year

```
1 ---
2 title: "Investment Report for Projects in `r params$country`"
3 output:
4 html_document:
5 toc: true
6 toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 country: Indonesia
10 fy: 2012
11 ---
```



## Adding parameters to define fiscal year

```

 title: "Investment Report for Projects in `r params$country`"
 output:
 html_document:
 toc: true
 toc_float: true
 date: "`r format(Sys.time(), '%d %B %Y')`"
 params:
 country: Indonesia
 year_start: 2011-07-01
10
11
 year_end: 2012-06-30
12
 fy: 2012
13
```



```
```{r country-investment-projects-2012}
61
    country_investment_projects_2012 <- investment_services_projects %>%
62
      filter(country == params$country,
63
              date_disclosed >= "2011-07-01",
64
             date_disclosed <= "2012-06-30")
65
66
67
    ggplot(country_investment_projects_2012, aes(x = date_disclosed, y =
    total_investment, color = status)) +
      geom_point() +
68
      labs(
69
70
        title = "Investment Services Projects",
71
        x = "Date Disclosed",
        y = "Total IFC Investment in Dollars in Millions"
72
73
74
```

```
```{r country-investment-projects-2012}
61
 country_investment_projects_2012 <- investment_services_projects %>%
62
 filter(country == params$country,
63
 date_disclosed >= params$year_start,
64
 date_disclosed <= params$year_end)</pre>
65
66
67
 ggplot(country_investment_projects_2012, aes(x = date_disclosed, y =
 total_investment, color = status)) +
 geom_point() +
68
 labs(
69
70
 title = "Investment Services Projects",
71
 x = "Date Disclosed",
 y = "Total IFC Investment in Dollars in Millions"
72
73
74
```

```
```{r country-investment-projects-2012}
61
    country_investment_projects_2012 <- investment_services_projects %>%
62
      filter(country == params$country,
63
              date_disclosed >= params$year_start,
64
              date_disclosed <= params$year_end)</pre>
65
66
    ggplot(country_investment_projects_2012, aes(x = date_disclosed, y =
67
     total_investment, color = status)) +
       geom_point() +
68
69
       labs(
70
         title = "Investment Services Projects",
71
         x = "Date Disclosed",
         y = "Total IFC Investment in Dollars in Millions"
72
73
74
```

```
```{r country-annual-investment-projects}
61
 country_annual_investment_projects <- investment_services_projects %>%
62
 filter(country == params$country,
63
64
 date_disclosed >= params$year_start,
 date_disclosed <= params$year_end)</pre>
65
66
 ggplot(country_annual_investment_projects, aes(x = date_disclosed, y
67
 = total_investment, color = status)) +
68
 geom_point() +
69
 labs(
70
 title = "Investment Services Projects",
71
 x = "Date Disclosed",
 y = "Total IFC Investment in Dollars in Millions"
72
73
74
```

### Reviewing the text

- 59 ### Investment Projects in `r params\$country` in 2012
- The `investment\_services\_projects` dataset was filtered below to focus on information about each investment project from the 2012 fiscal year, and is referred to as `country\_annual\_investment\_projects`.



### Reviewing the text

59 ### Investment Projects in `r params\$country` in `r params\$fy`
60 The `investment\_services\_projects` dataset was filtered below to focus on information about each investment project from the `r params\$fy` fiscal year, and is referred to as `country\_annual\_investment\_projects`.

## Reviewing the YAML header

```
1 ---
2 title: "Investment Report for Projects in `r params$country`"
3 output:
4 html_document:
5 toc: true
6 toc_float: true
7 date: "`r format(Sys.time(), '%d %B %Y')`"
8 params:
9 country: Indonesia
10 year_start: 2011-07-01
11 year_end: 2012-06-30
12 fy: 2012
13 ---
```



### Knitting the report

```
title: "Investment Report for Projects in `r params$country`"

title: "Investment Report for Projects in `r params$country`"

title: "Investment Report for Projects in `r params$country`"

toutput:

html_document:

toc: true

toc_float: true

date: "`r format(Sys.time(), '%d %B %Y')`"

params:

country: Turkey
year_start: 2012-07-01
year_end: 2013-06-30
fy: 2013

```

#### Datasets

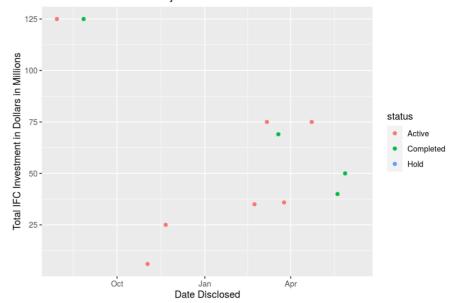
Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Turkey in 2013

#### **Investment Projects in Turkey in 2013**

#### Investment Services Projects





# Let's practice!

REPORTING WITH R MARKDOWN



# Customizing the report

REPORTING WITH R MARKDOWN



**Amy Peterson** 

Head of Core Curriculum at DataCamp



### Specifying element style

```
15 <style>
16
17
18
19 </style>
```

- color
- background-color
- font-family
- font-size

### Document style

# Datasets Investment Annual Summary Investment Projects from the 2012 to 2018 Fiscal Years Investment Projects in Brazil in 2018

### **Investment Report for Projects** in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

The investment\_annual\_summary dataset provides a summary of the dollars in millions provided to each region for each fiscal year, from 2012 to 2018.

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_
millions, color = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```

#### Investment Annual Summary



### Using color hex codes

#### Datasets

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

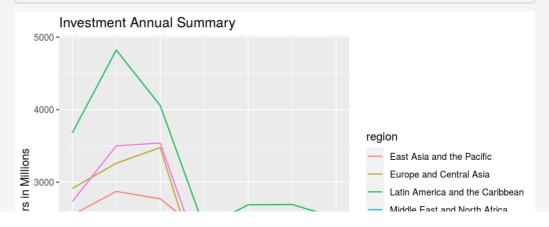
#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
 geom_line() +
 labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```



### Code chunks

```
<style>
 body {
16
 color: #708090;
18
 font-family: Calibri;
19
 background-color: #F5F5F5;
20
21
 pre {
22
 color: #708090;
23
 background-color: #F8F8FF;
24
25
 </style>
```

#### Datasets

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

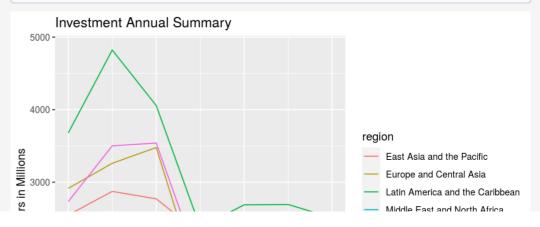
#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```



### The table of contents

```
<style>
 #TOC {
16
17
 color: #708090;
18
 font-family: Calibri;
19
 font-size: 16px;
20
 border-color: #708090;
21
 body {
23
 color: #708090;
24
 font-family: Calibri;
25
 background-color: #F5F5F5;
26
 pre {
28
 color: #708090;
 background-color: #F8F8FF;
29
30
31
 </style>
```

#### **Datasets**

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

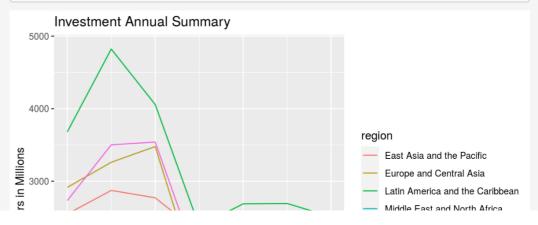
#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```



### The header

```
22 #header {
23 color: #800000;
24 background-color: #F5F5F5;
25 opacity: 0.6;
26 font-family: Calibri;
27 font-size: 20px;
28 }
```

#### Datasets

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

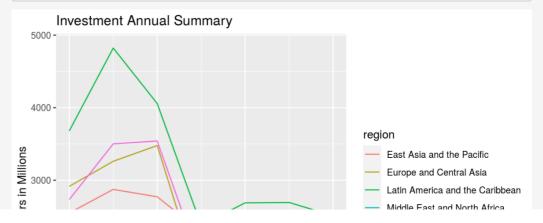
#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```



### The title, author, and date

```
22
 h1.title {
23
 color: #800000;
24
 background-color: #F5F5F5;
25
 opacity: 0.6;
26
 font-family: Calibri;
27
 font-size: 40px;
28
29
 h4.author {
30
 color: #708090;
 font-family: Calibri;
31
32
33
 h4.date {
34
 color: #708090;
35
 font-family: Calibri;
36
```

#### **Datasets**

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

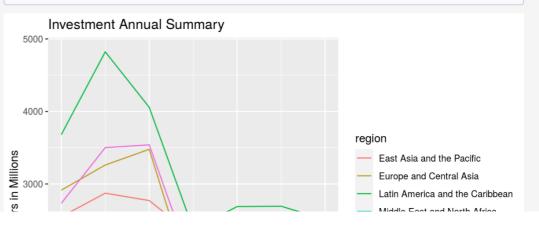
#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```



### **CSS** file

```
title: "Investment Report for Projects in `r params$country`"
 output:
 html_document:
 css: styles.css
 6
 toc: true
 toc_float: true
 date: "`r format(Sys.time(), '%d %B %Y')`"
 params:
 country: Brazil
10
11
 year_start: 2017-07-01
12
 year_end: 2018-06-30
 fy: 2018
13
14
```

```
investment_report.Rmd
 styles.css
 #T0C {
 1
 color: #708090;
 font-family: Calibri;
 font-size: 16px;
 border-color: #708090;
 6
 h1.title {
 color: #F08080;
 background-color: #F5F5F5;
 10
 opacity: 0.6;
 font-family: Calibri;
 11
 12
 font-size: 20px;
 13
 14
 h4.author {
 15
 color: #708090;
 font-family: Calibri;
 16
 17
 background-color: #F5F5F5;
 18
 19
 h4.date {
 20
 color: #708090;
 font-family: Calibri;
 background-color: #F5F5F5;
 23
 24
 body {
```

# Let's practice!

REPORTING WITH R MARKDOWN



# Congratulations!

REPORTING WITH R MARKDOWN



**Amy Peterson** 

Head of Core Curriculum at DataCamp



### Chapter 1: R Markdown elements

Code

```
```{r}
investment_annual_summary
```
```

#### YAML Header

```
1 ---
2 title: "Investment Report"
3 output: html_document
4 ---
```

Text

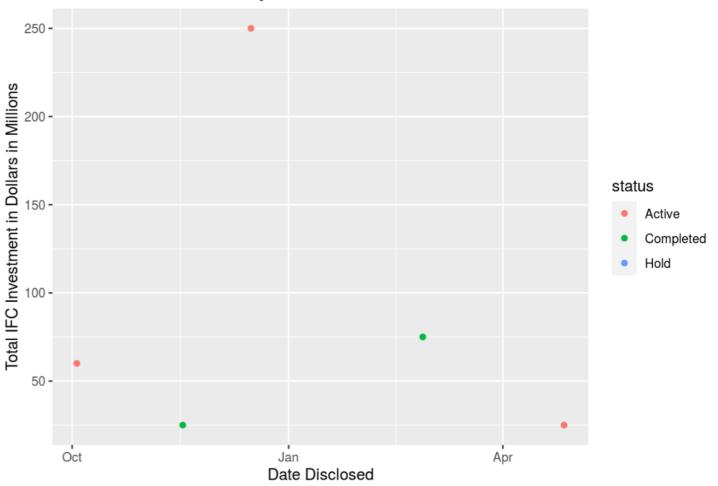
```
Investment Annual Summary
```

### Chapter 2: Data analysis and visualization

```
A tibble: 6 x 13
 date disclosed
 country ifc country code sector project name
 <dttm>
 <chr>
 <chr>
 <chr> <chr>
1 2012-04-27 00:00:00 Indone~ INS
 Agrib~ FHP Indones~
 2012-04-03 00:00:00 Indone~ INS
 Finan~ LMS Toll Pr~
 2012-02-27 00:00:00 Indone~ INS
 Finan~ CIMB Niaga ~
 2011-12-16 00:00:00 Indone~ INS
 Oil, ~ BTPN Loan II
 2011-11-17 00:00:00 Indone~ INS
 Infra~ Medco Power~
 2011-10-03 00:00:00 Indone~ INS
 Finan~ Wintermar G~
 ... with 8 more variables: project number <dbl>, company name <chr>,
 status <chr>, risk_management_investment <dbl>, guarantee_investment <dbl>,
 loan investment <dbl>, equity investment <dbl>, total investment <dbl>
```

## Warning: Removed 1 rows containing missing values (geom\_point).

#### Investment Services Projects in Indonesia in 2012





### Chapter 3: Lists and tables

#### **Investment Annual Summary**

The investment\_annual\_summary dataset provides a summary of the dollars in millions provided to each region for each fiscal year, from 2012 to 2018.

#### Region

- 1. East Asia and the Pacific
- 2. Europe and Central Asia
- 3. Latin America and the Caribbean
- 4. Middle East and North Africa
- 5. South Asia
- 6. Sub-Saharan Africa

kable(investment\_region\_summary)

| region                          | dollars_in_millions |
|---------------------------------|---------------------|
| East Asia and the Pacific       | 16465               |
| Europe and Central Asia         | 17659               |
| Latin America and the Caribbean | 22828               |
| Middle East and North Africa    | 9755                |
| South Asia                      | 11459               |
| Sub-Saharan Africa              | 16892               |



### Chapter 4: toc, styles, and params

### **Investment Report**

08 May 2020

- Datasets
  - Investment Annual Summary
  - Investment Projects from the 2012 to 2018 Fiscal Years
  - Investment Projects in 2018

```
title: "Investment Report for Projects in `r params$country`"

title: "Investment Report for Projects in `r params$country`"

toutput:

html_document:

toc: true

toc_float: true

date: "`r format(Sys.time(), '%d %B %Y')`"

params:

country: Indonesia
year_start: 2011-07-01
year_end: 2012-06-30

fy: 2012
```

#### **Datasets**

Investment Annual Summary

Investment Projects from the 2012 to 2018 Fiscal Years

Investment Projects in Brazil in 2018

#### Investment Report for Projects in Brazil

08 May 2020

#### **Datasets**

#### **Investment Annual Summary**

The investment\_annual\_summary dataset provides a summary of the dollars in millions provided to each region for each fiscal year, from 2012 to 2018.

```
ggplot(investment_annual_summary, aes(x = fiscal_year, y = dollars_in_millions, c
olor = region)) +
geom_line() +
labs(
 title = "Investment Annual Summary",
 x = "Fiscal Year",
 y = "Dollars in Millions"
)
```

Investment Annual Summarv

### dplyr and ggplot2

Data Manipulation with dplyr

Introduction to Data Visualization with ggplot2

Joining Data with dplyr

Intermediate Data Visualization with ggplot2



### Shiny

**Building Web Applications with Shiny in R** 

**Building Dashboards with shinydashboard** 

**Building Dashboards with flexdashboard** 



## Congratulations!

REPORTING WITH R MARKDOWN

