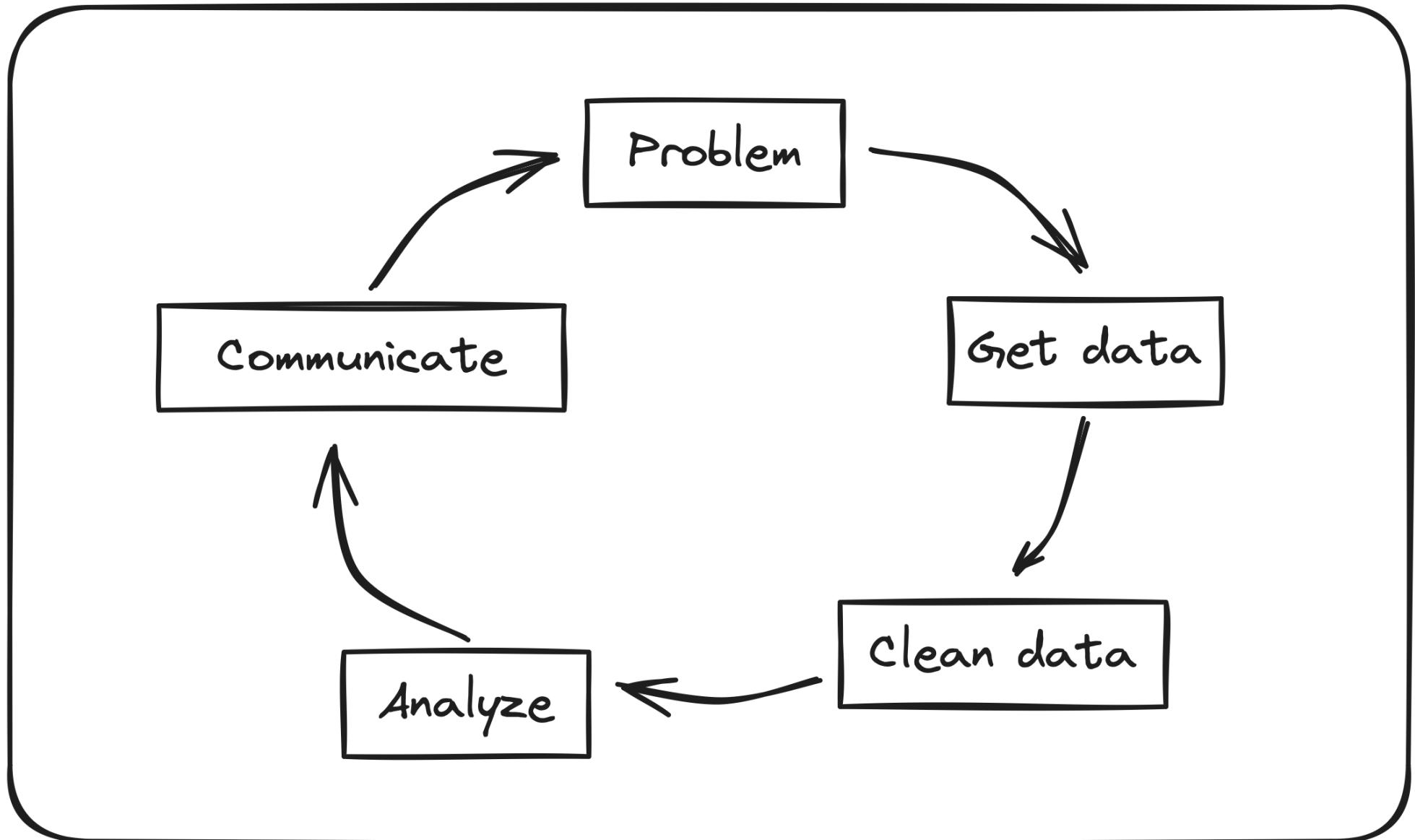
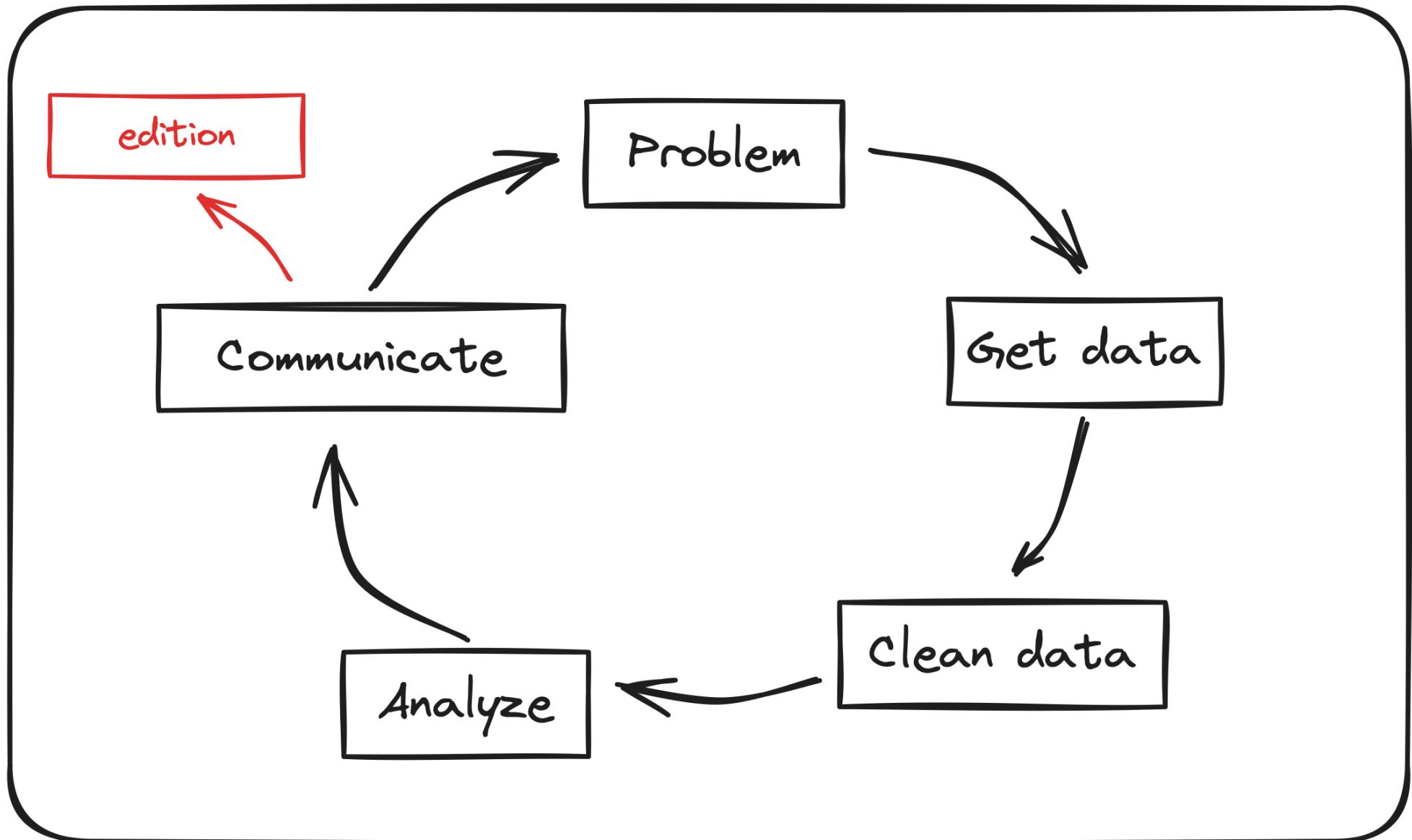


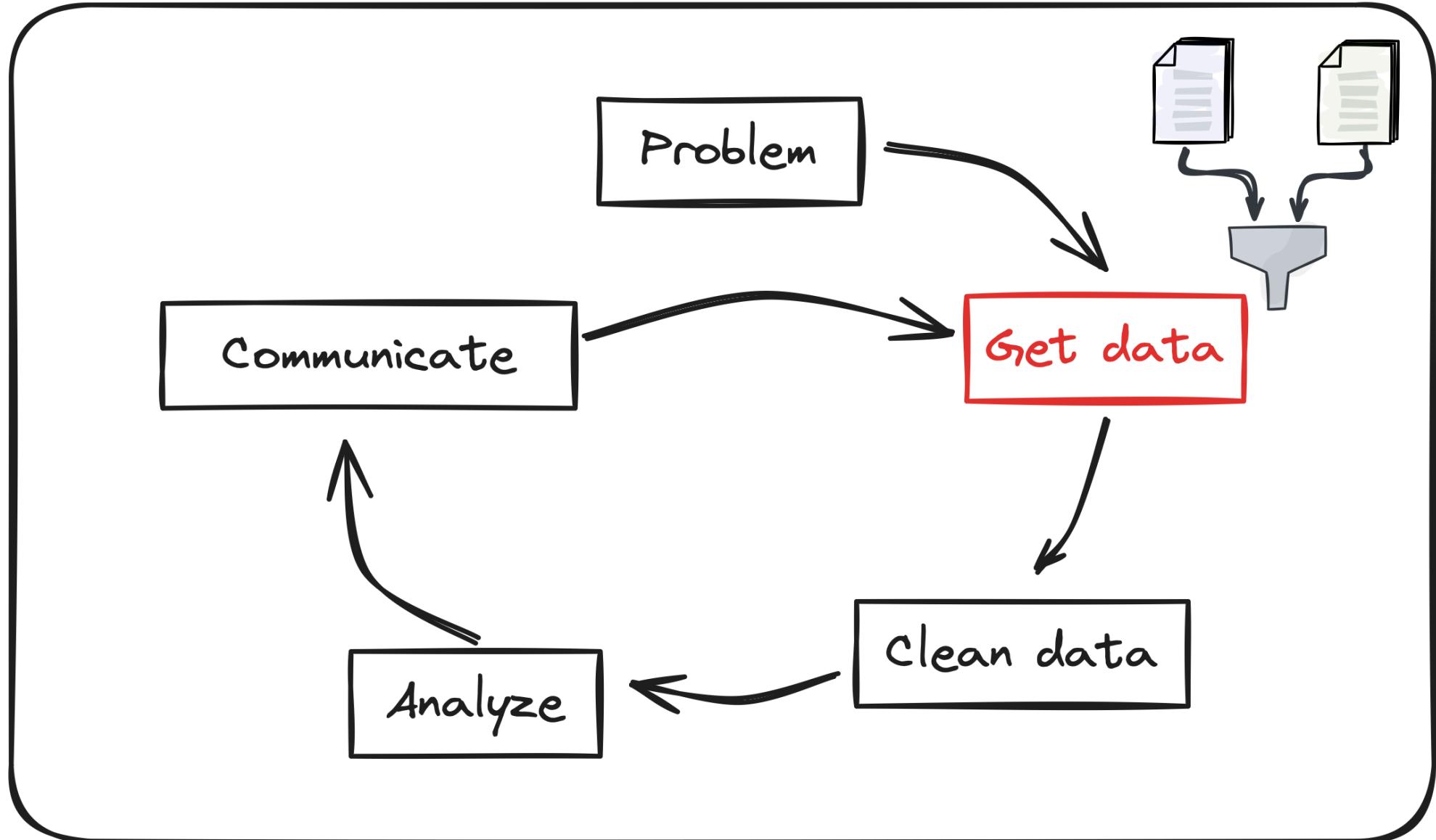
Achieving Corporate Design Consistency in Reports with Indiedown

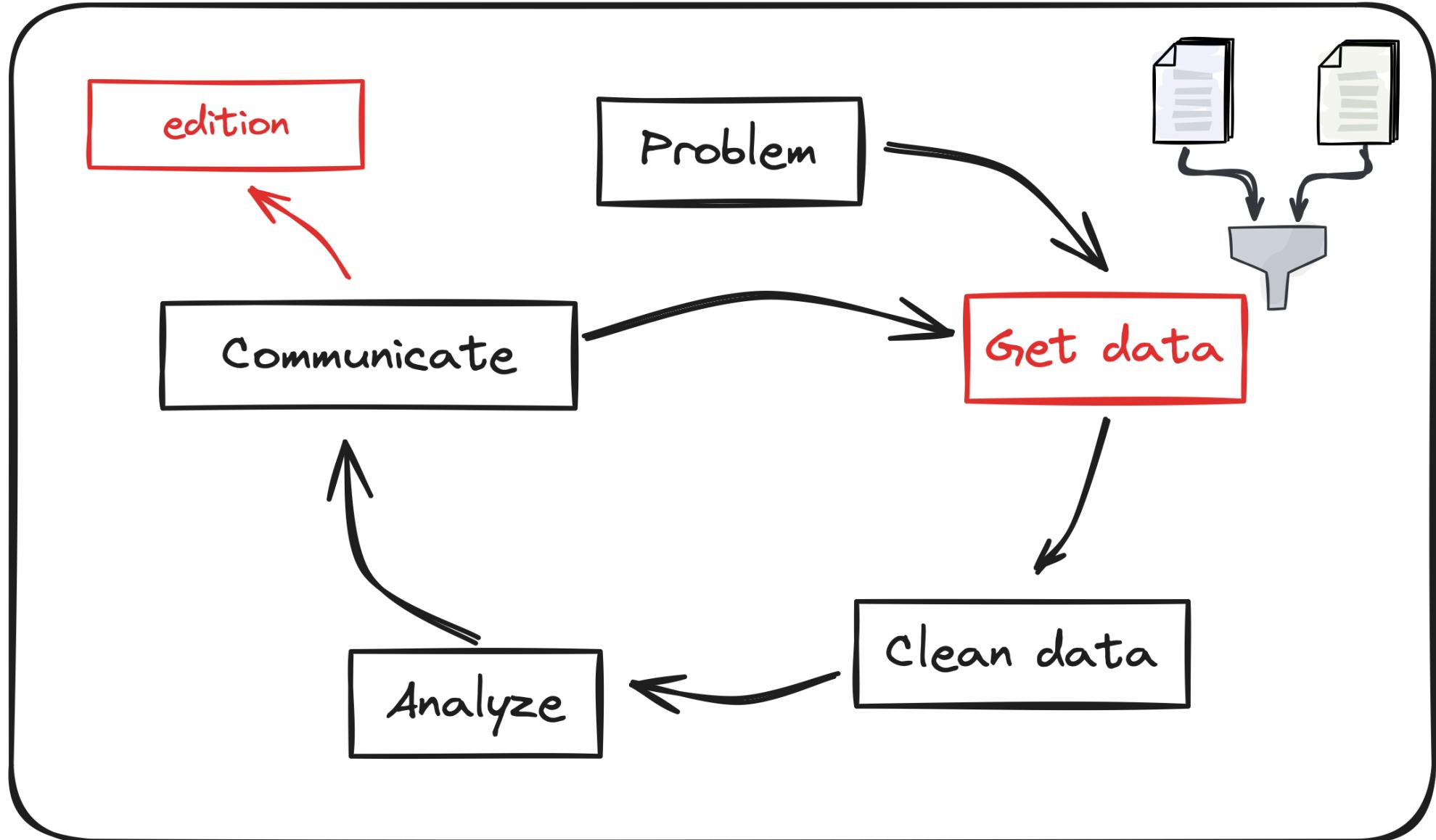
An R Markdown Solution

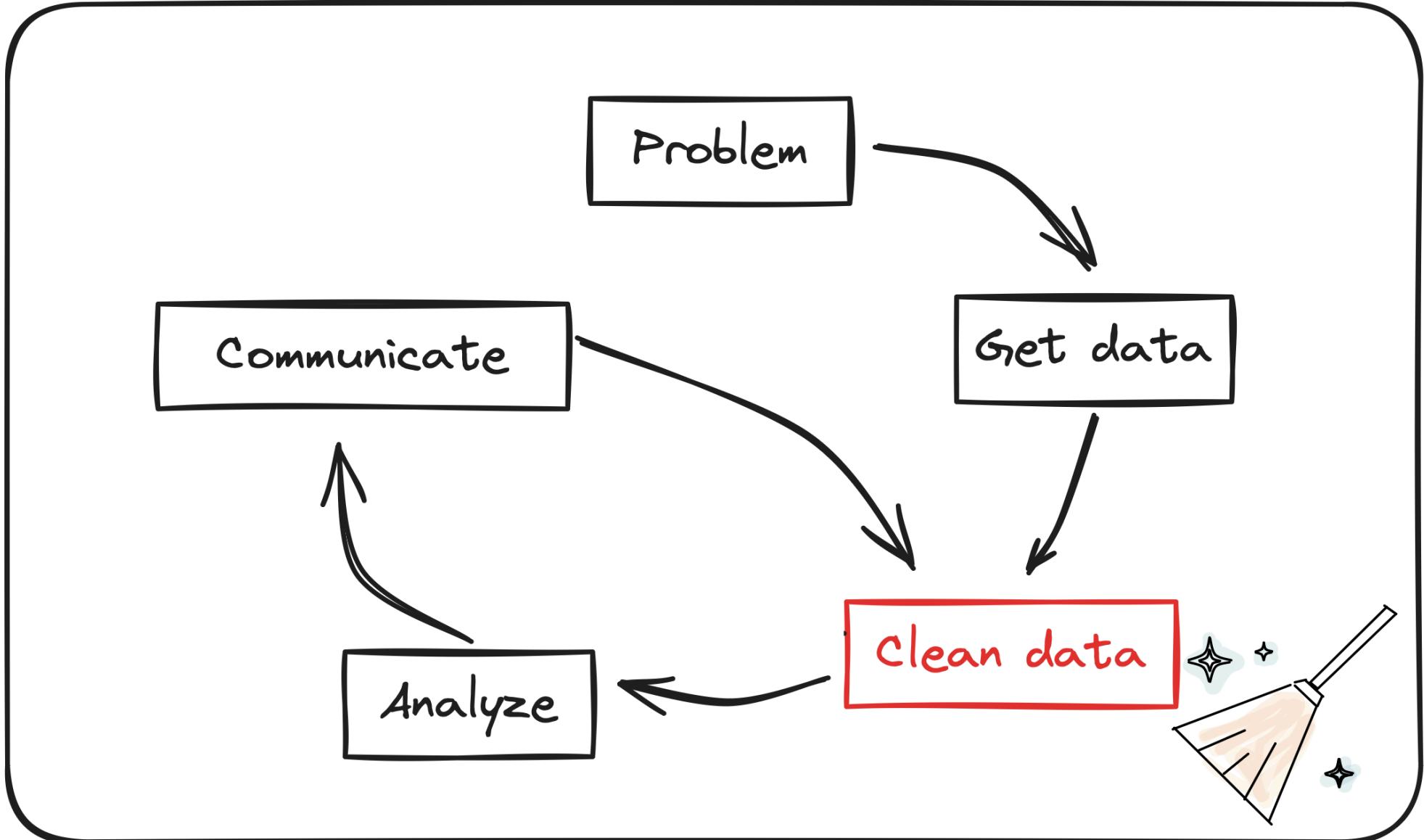
Angelica Becerra

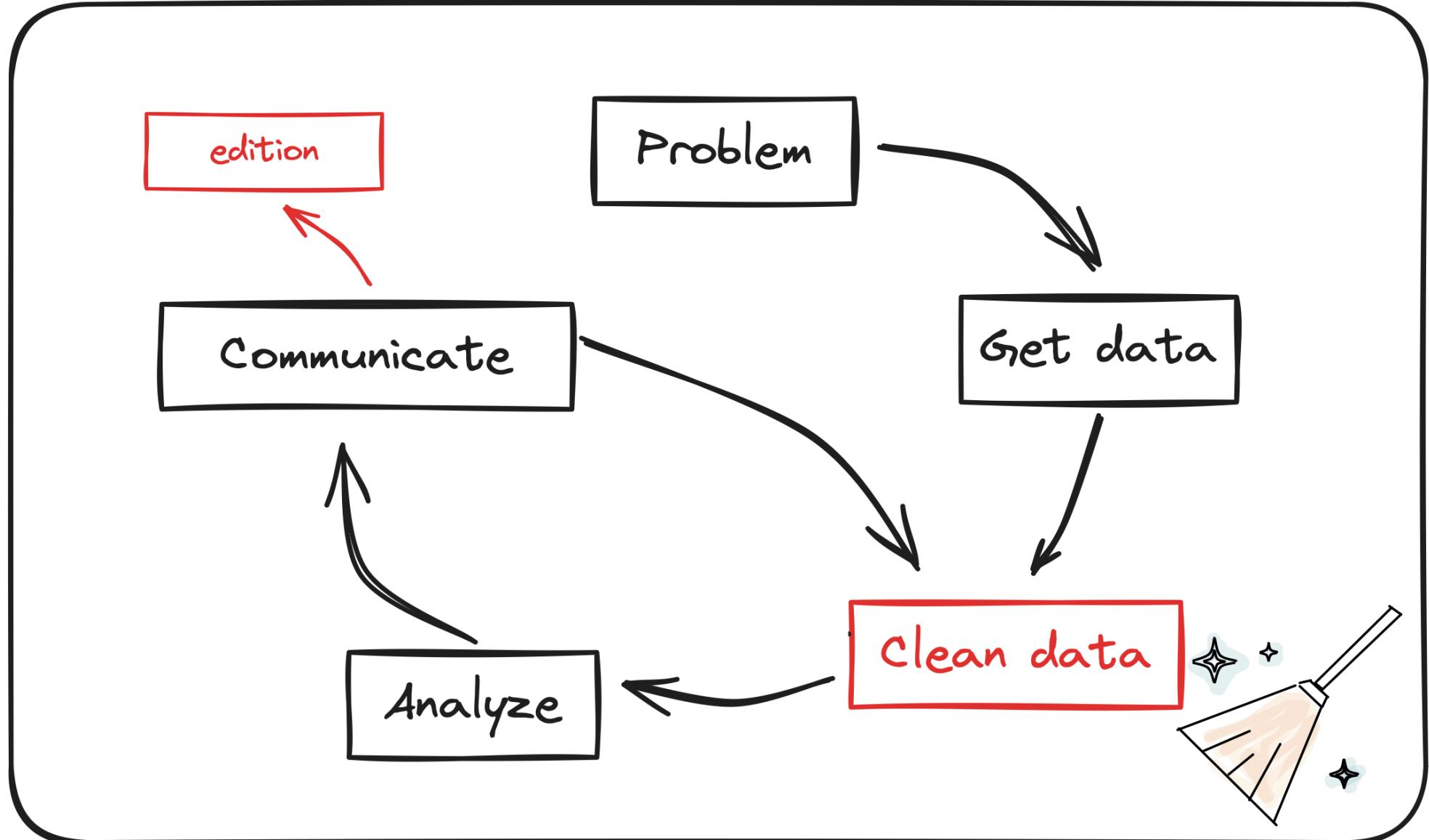


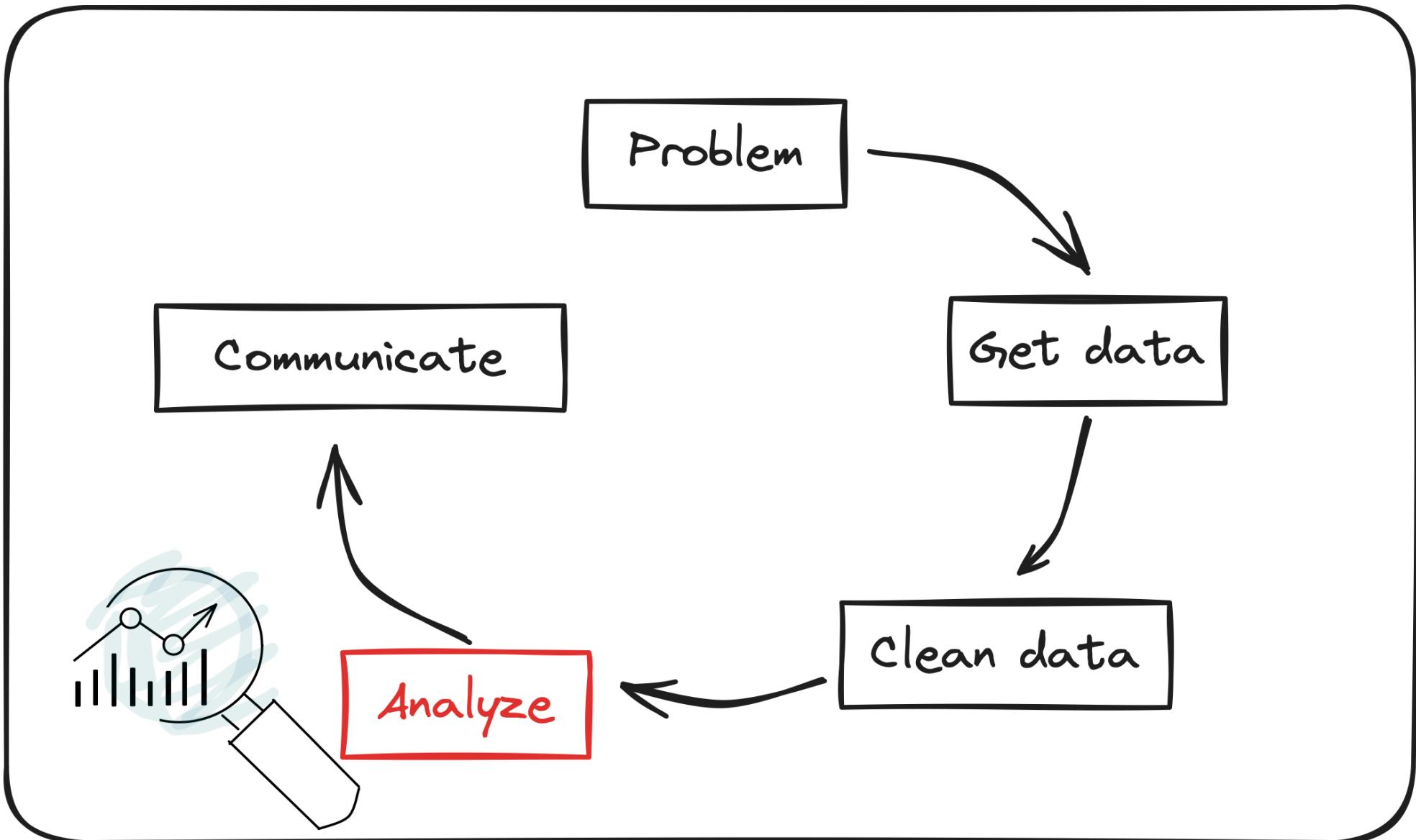


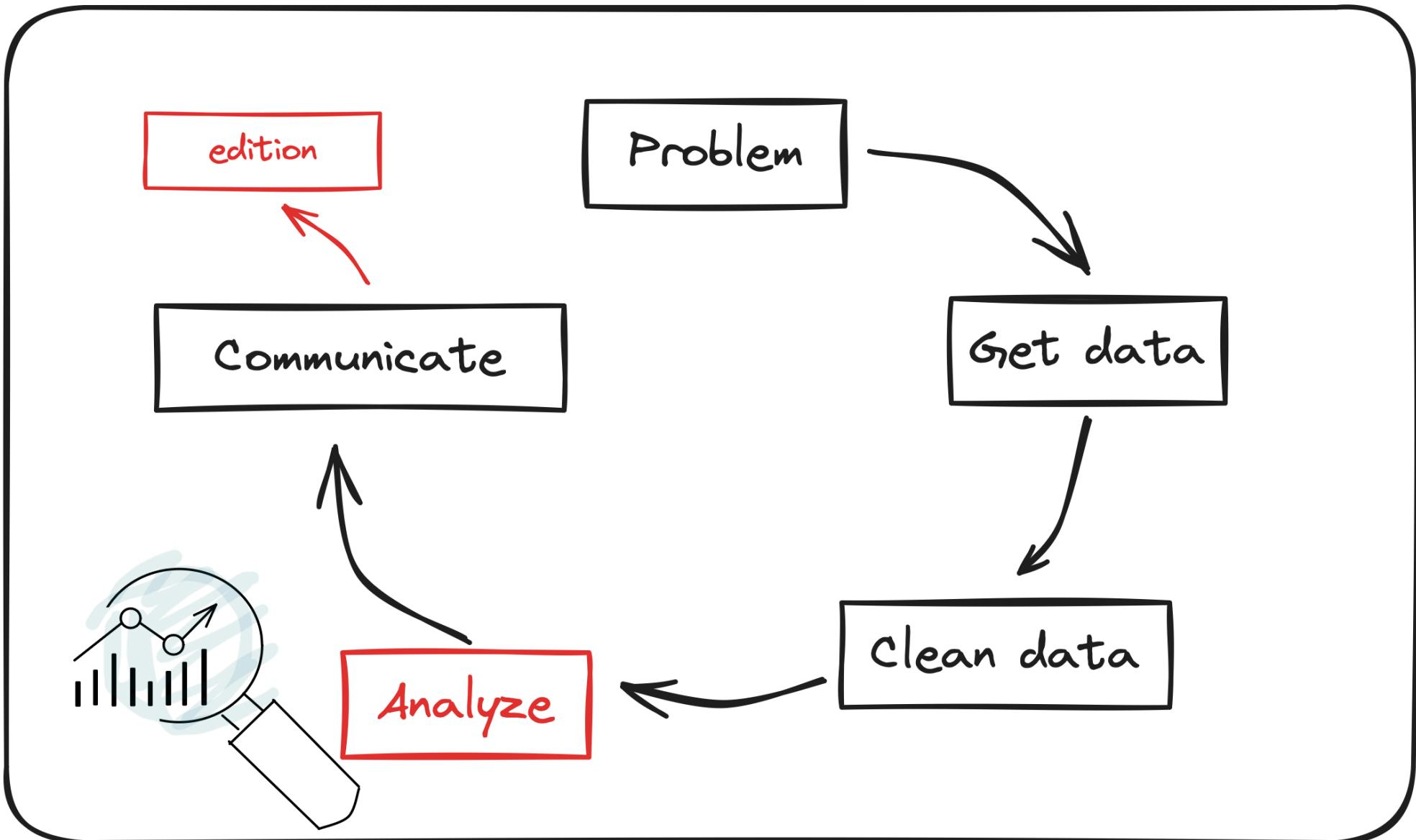


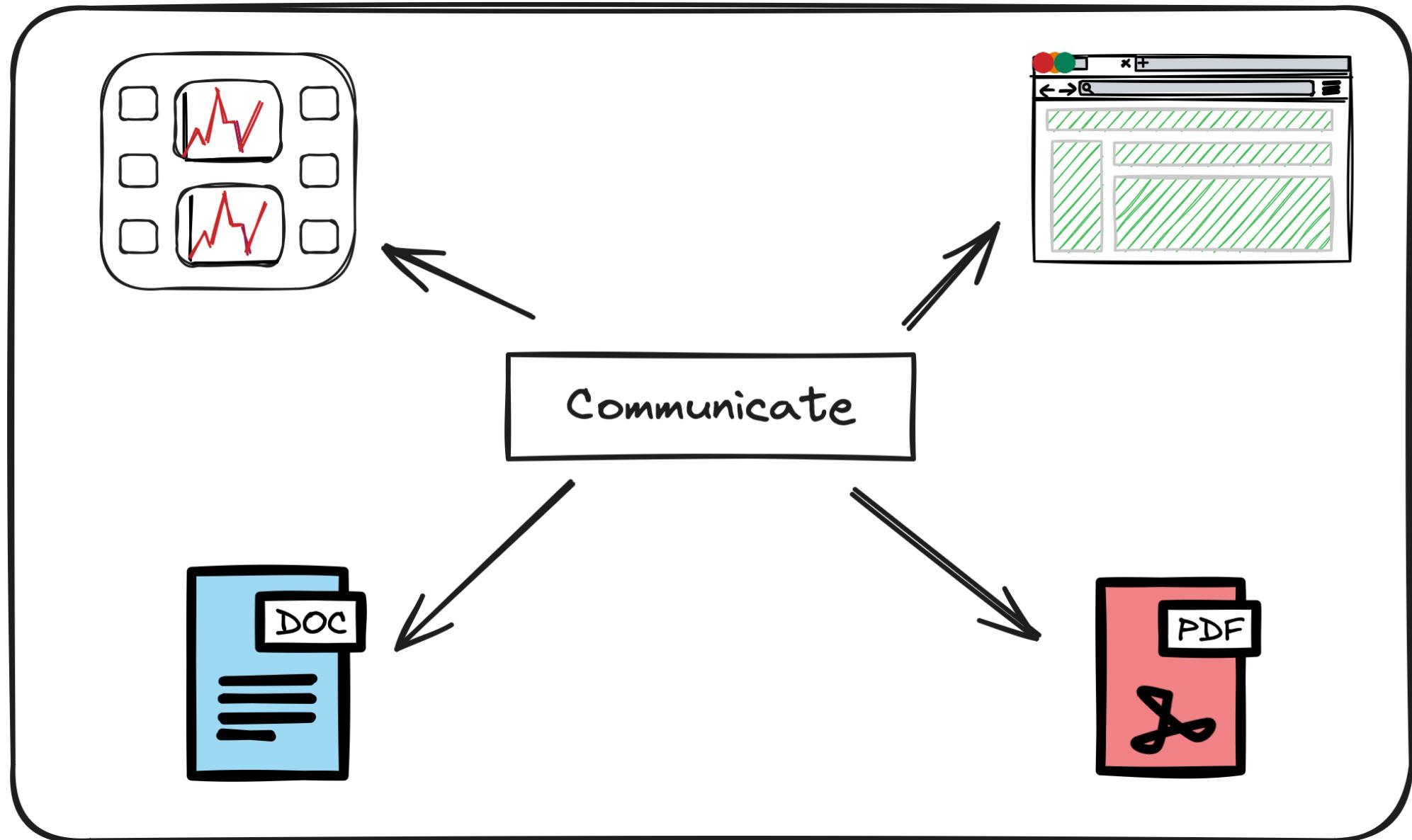


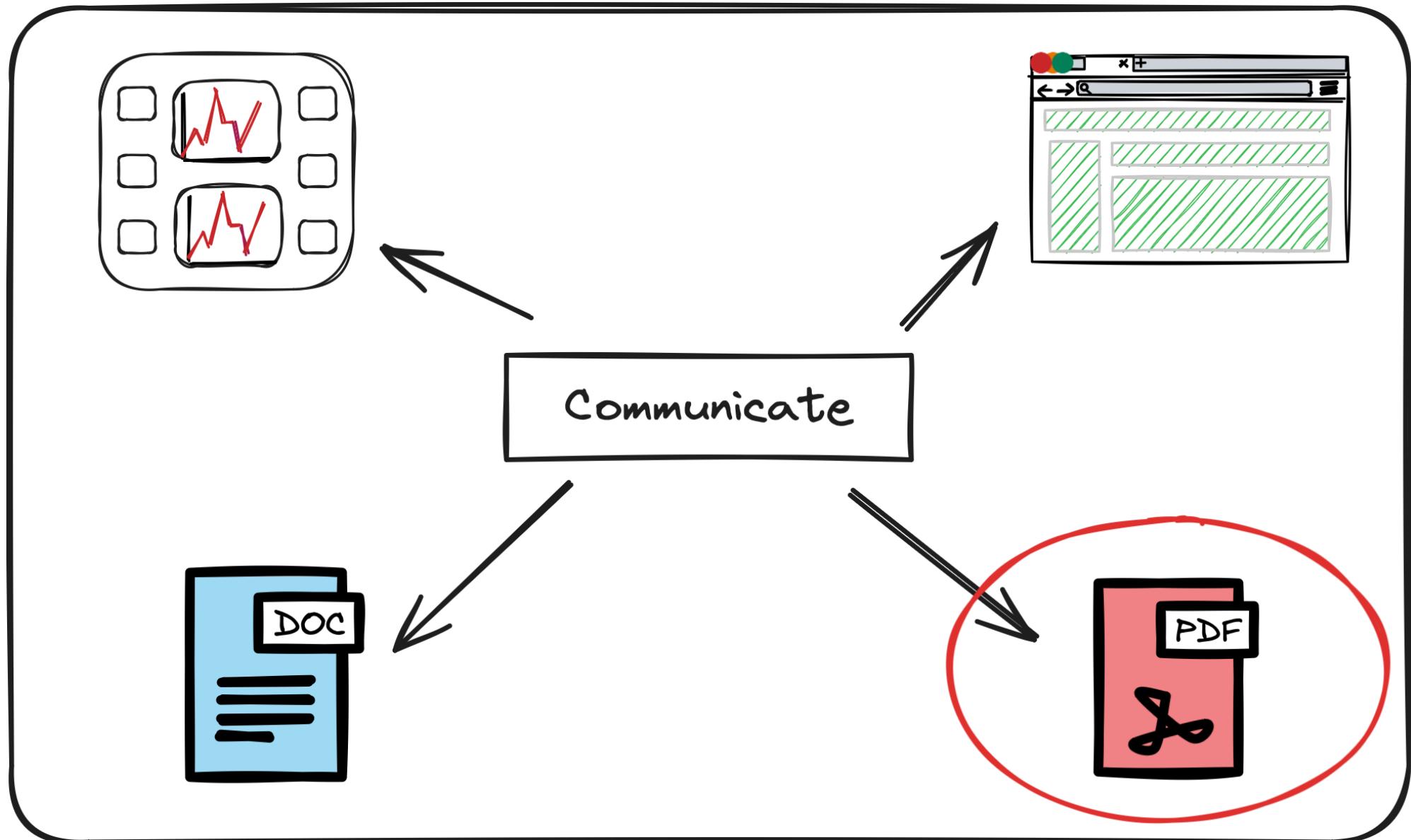












Why PDF?



- Offline access
- Cross-Platform Consistency
- Facilitate distribution
- Long-Term Storage
- Non-Editable Format



Trevor Branch
@TrevorABranch

...

My rule of thumb: every analysis you do on a dataset will have to be redone 10–15 times before publication. Plan accordingly. #Rstats

12:28 AM · Sep 30, 2015

18

272

294





Trevor Branch
@TrevorABranch

...

My rule of thumb: every analysis you do on a dataset will have to be redone 10–15 times before publication. Plan accordingly. #Rstats

12:28 AM · Sep 30, 2015



18



272

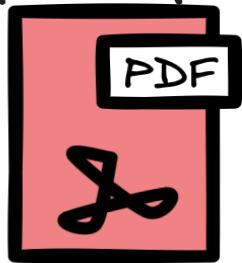


294

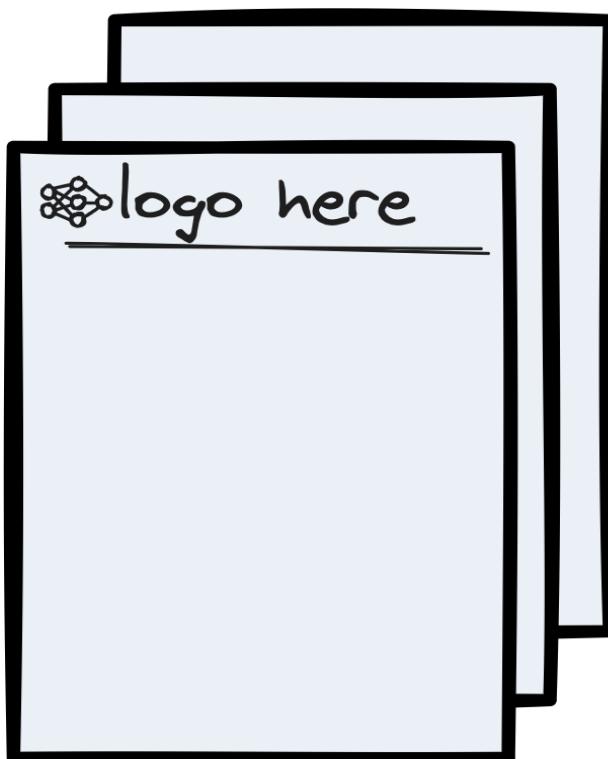
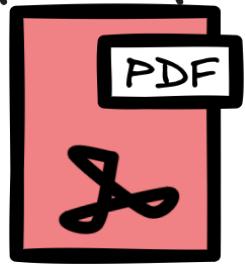


and think the time to deal with logos, positioning, colors schemes, ...

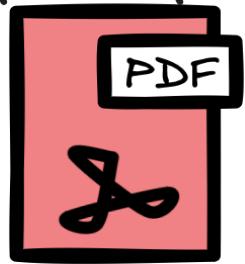
plain pdf



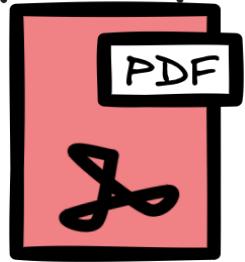
plain pdf

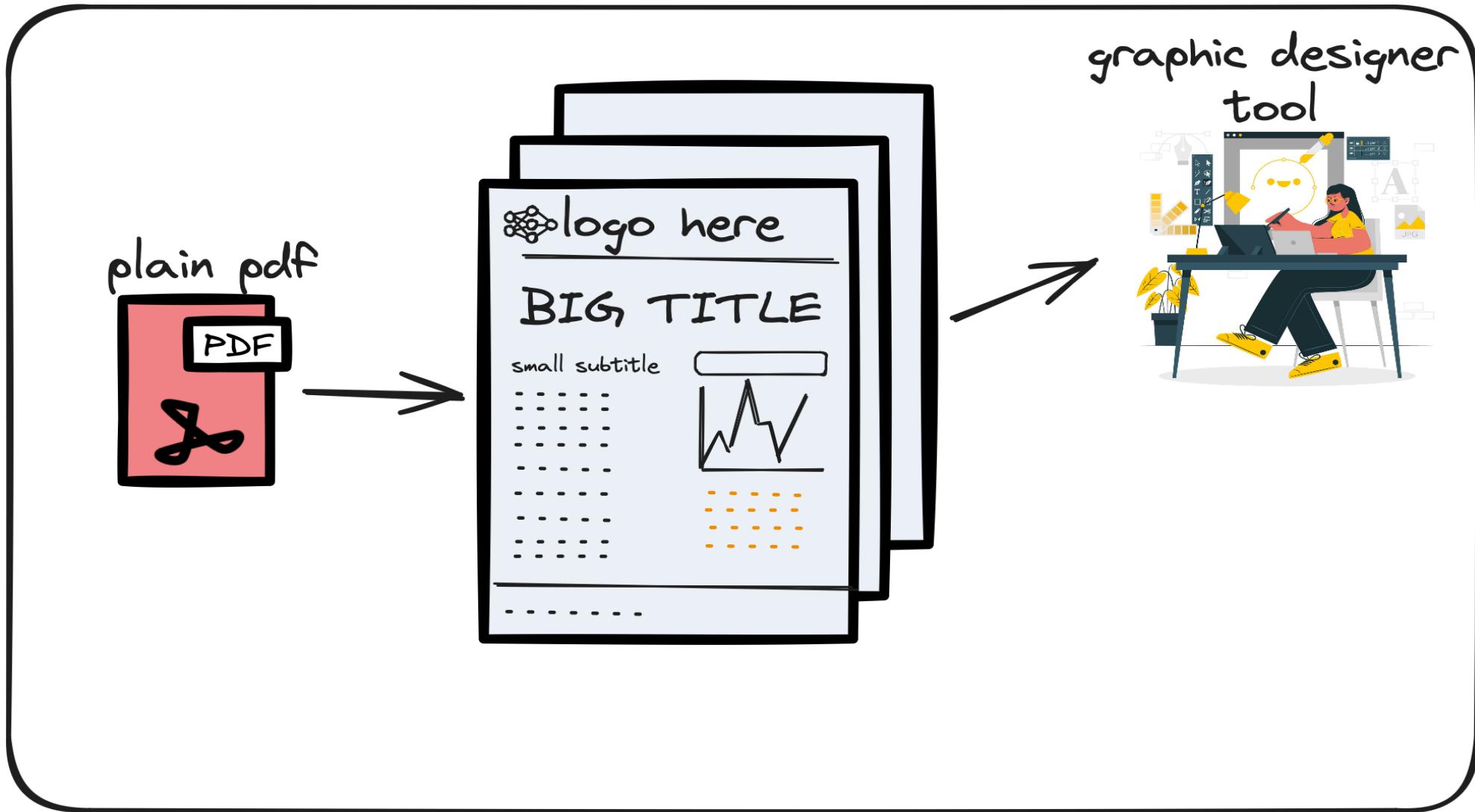


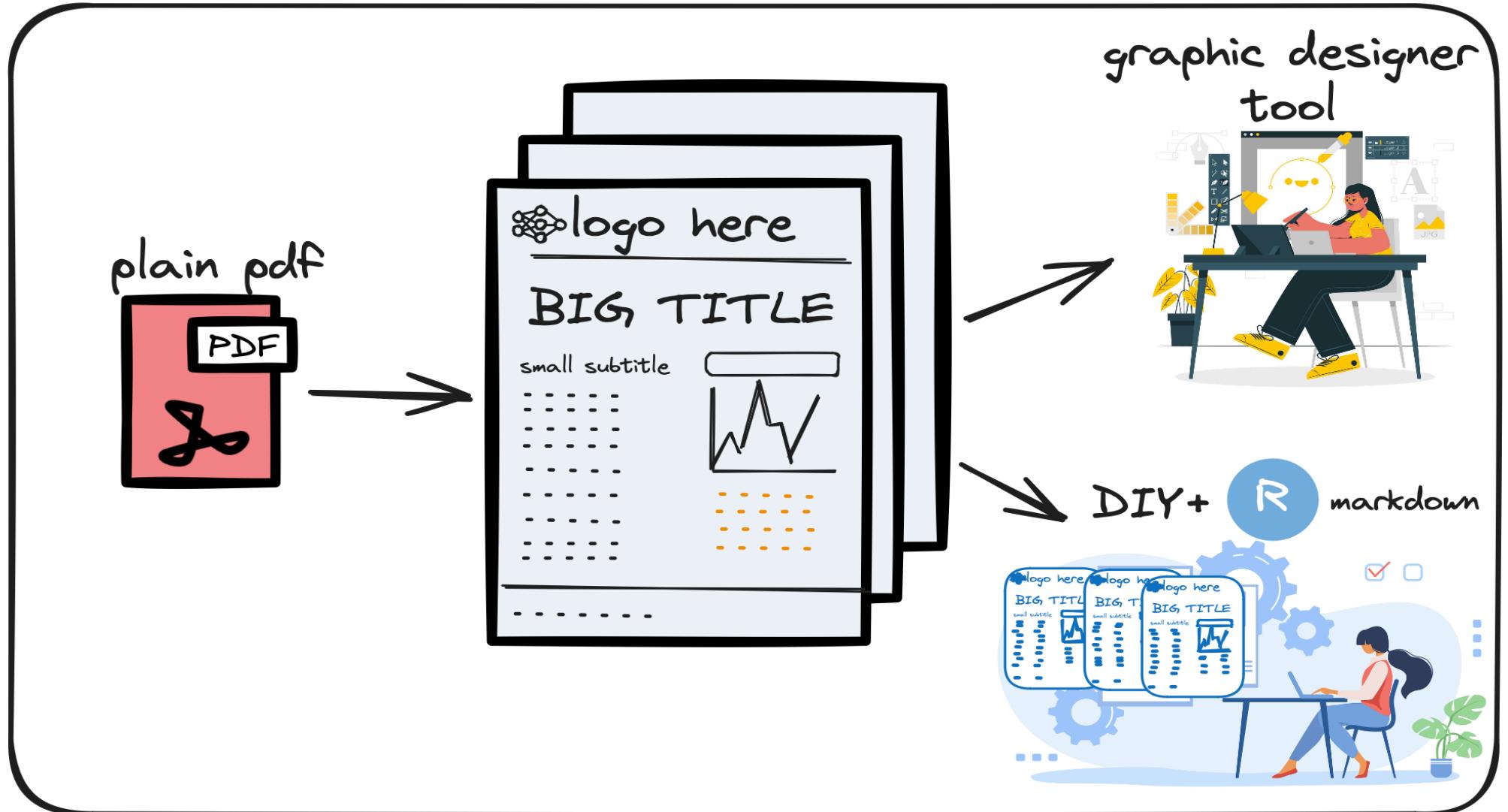
plain pdf



plain pdf





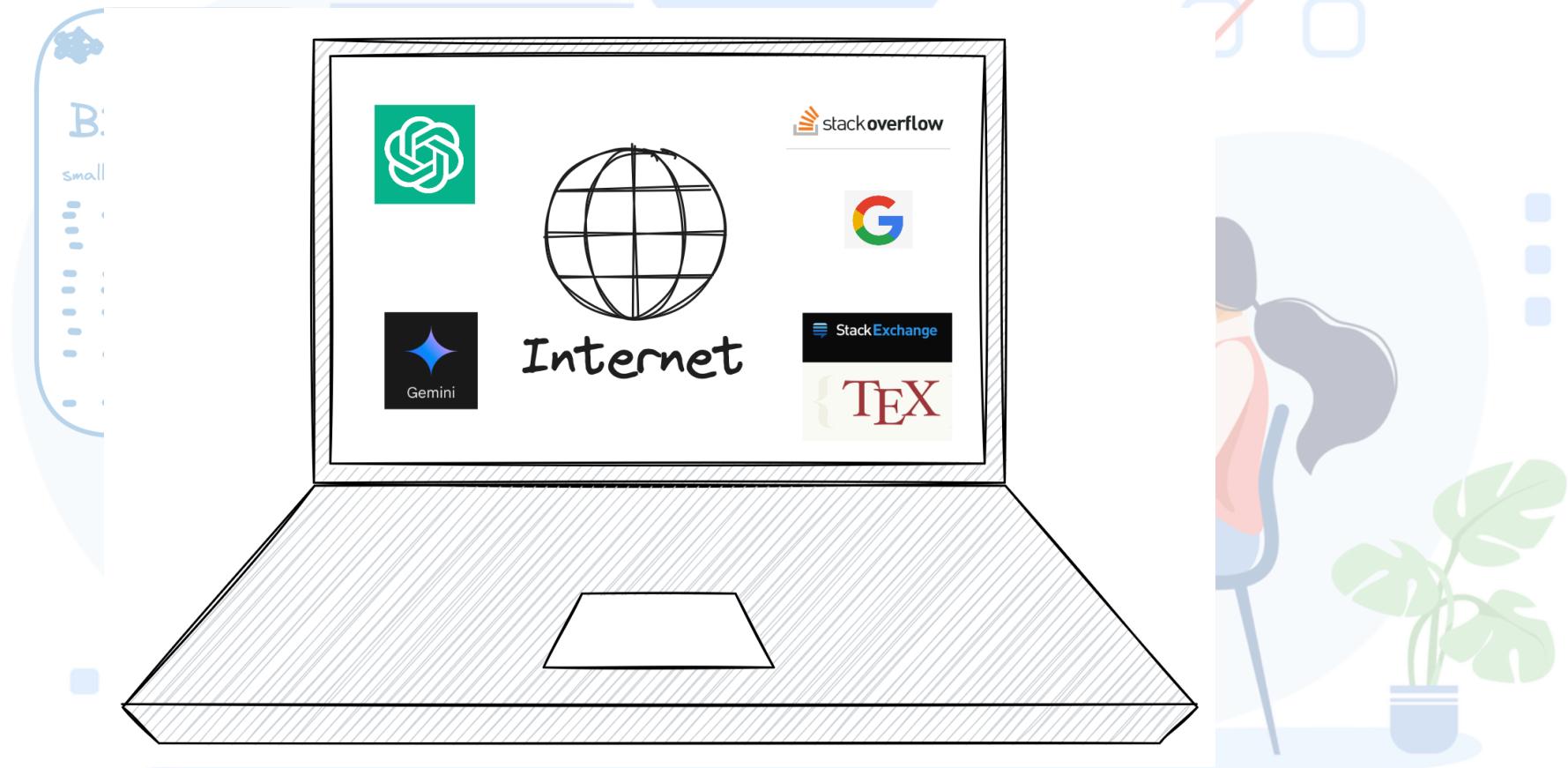


Top left image by by storyset on Freepik

How can we include these elements using Rmarkdown?



How can we include these elements using Rmarkdown?



Logo

```
1 ---  
2 title: "Document with logo"  
3 header-includes:  
4   \usepackage{graphicx}  
5   \usepackage{fancyhdr}  
6   \pagestyle{fancy}  
7   \setlength\headheight{28pt}  
8   \fancyhead[L]{\includegraphics[width=10cm]{logo.png}}  
9   \fancyfoot[LE,RO]{GPIM}  
10 output: pdf_document  
11 ---
```

Document with logo

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:

```
summary(cars)
```

```
##      speed          dist
## Min.   : 4.0   Min.   :  2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean   :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

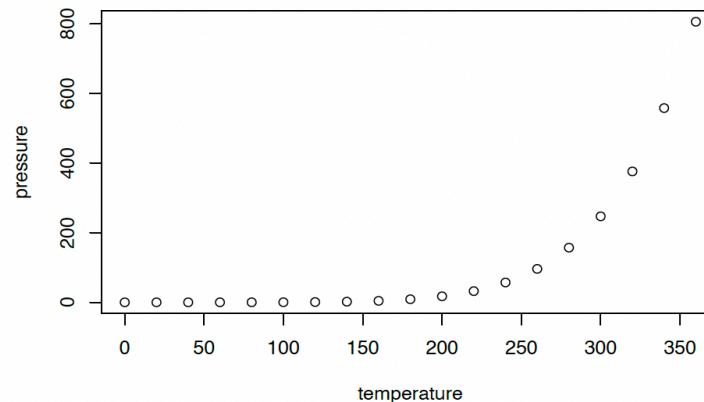
Including Plots

You can also embed plots, for example:

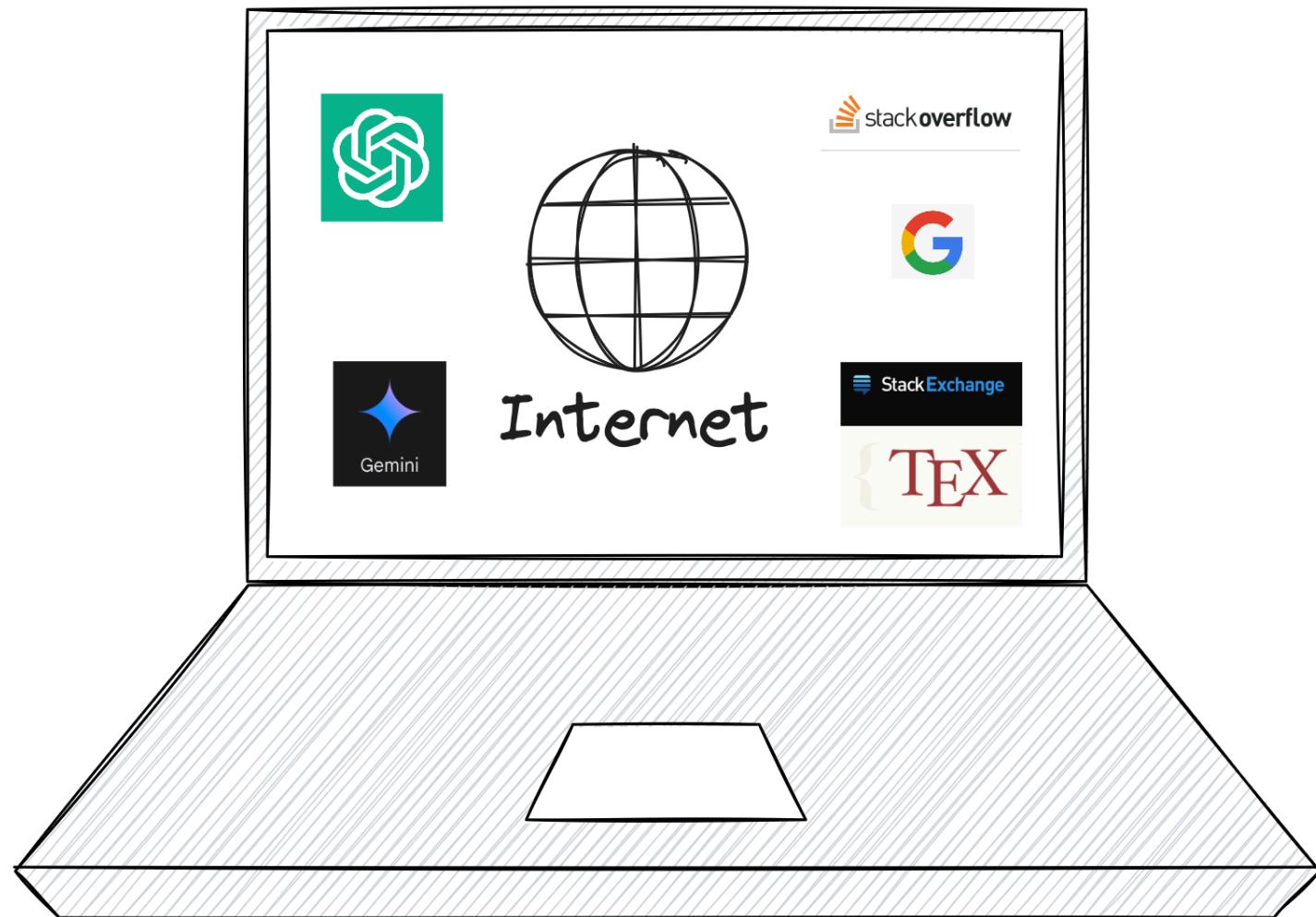


logo here

This is fancy header



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



Logo in the first page

```
1 ---  
2 title: "Document with logo"  
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9   \fancyfoot[LE,RO]{GPIM}  
10 output: pdf_document  
11 ---  
12  
13 \addtolength{\headheight}{1.0cm}  
14 \fancypagestyle{plain}{} the first page  
15 \thispagestyle{fancy}  
16 \fancyhead[L]{\includegraphics[width = 100pt]{logo.png}}  
17 \renewcommand{\headrulewidth}{0pt}
```

Logo in the first page

```
1 ---  
2 title: "Document with logo"  
3 header-includes:  
4   \usepackage{graphicx}  
5   \usepackage{fancyhdr}  
6   \pagestyle{fancy}  
7   \setlength\headheight{28pt}  
8   \fancyhead[L]{\includegraphics[width=10cm]{logo.png}}  
9   \fancyfoot[LE,RO]{GPIM}  
10 output: pdf_document  
11 ---  
12  
13 \addtolength{\headheight}{1.0cm}  
14 \fancypagestyle{plain}{} the first page  
15 \thispagestyle{fancy}  
16 \fancyhead[L]{\includegraphics[width = 100pt]{logo.png}}  
17 \renewcommand{\headrulewidth}{0pt}
```



This is fancy header

Document with logo

the first page

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```
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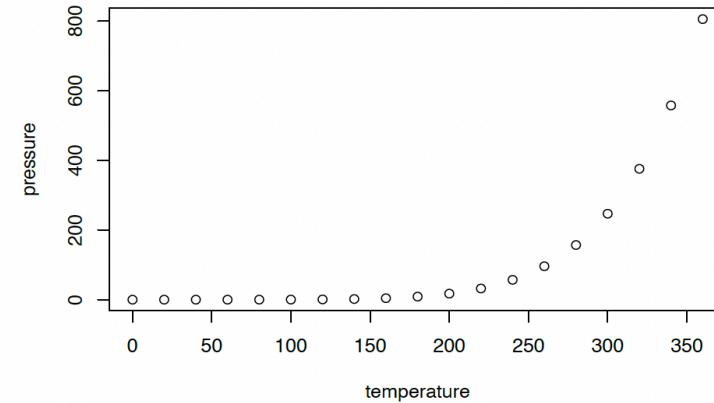
##      speed          dist
## Min.   : 4.0   Min.   :  2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean   :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

Including Plots

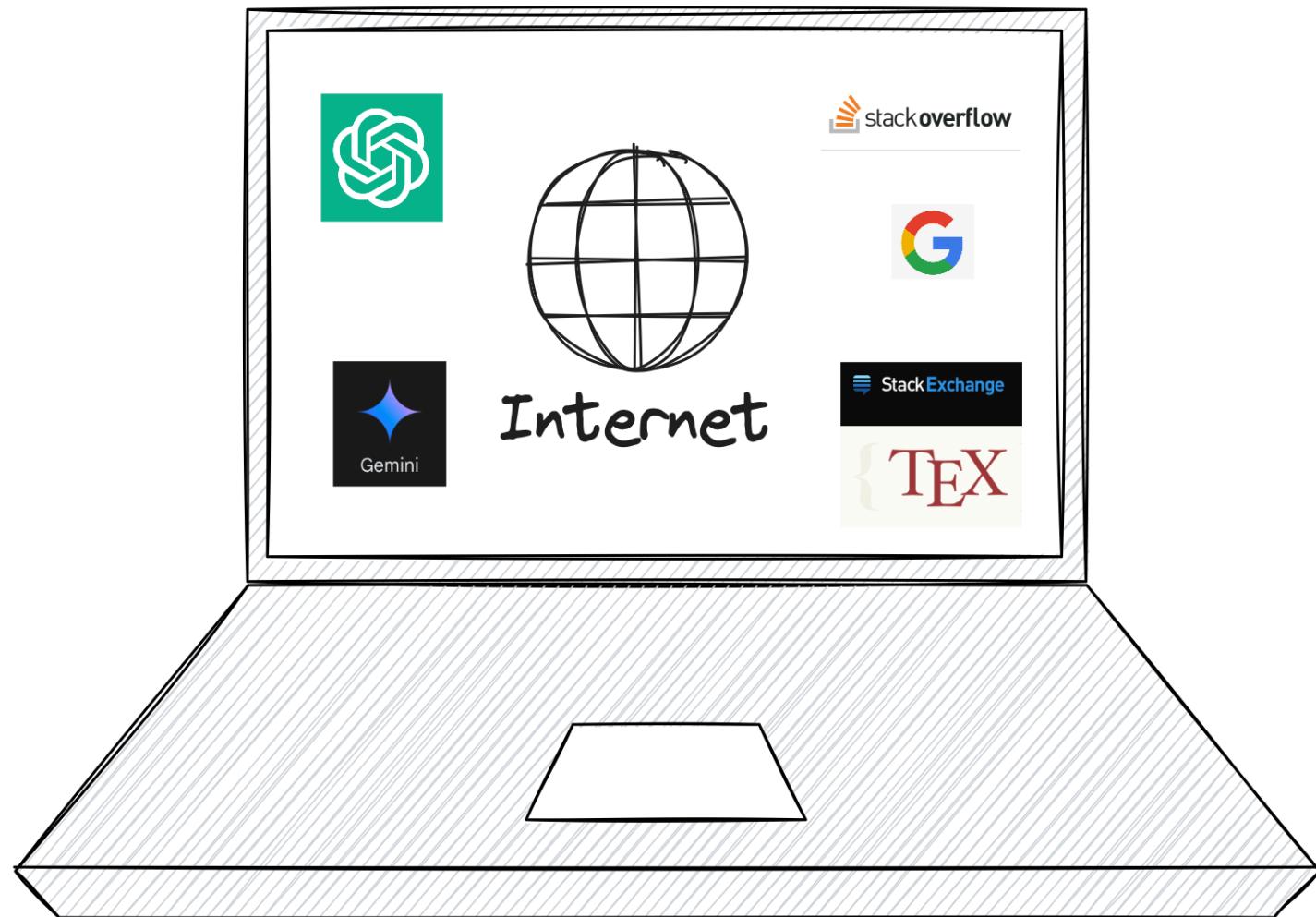
You can also embed plots, for example:



This is fancy header



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



Header and Footer

```
1 ---  
2 title: "Document with logo"  
3 header-includes:  
4   - \usepackage{graphicx}  
5   - \usepackage{fancyhdr}  
6   - \pagestyle{fancy}  
7   - \setlength\headheight{28pt}  
8   - \fancyhead[L]{\includegraphics[width=5cm]{cynkra-logo.png}}  
9   - \fancyfoot[LE,RO]{GPIM}  
10  - \usepackage{fancyhdr}  
11  - \pagestyle{fancy}  
12  - \fancyhead[CO,CE]{This is fancy header}  
13  - \fancyfoot[CO,CE]{And this is a fancy footer}  
14  - \fancyfoot[LE,RO]{\thepage}  
15 output: pdf_document  
16 ---  
17  
18 \addtolength{\headheight}{1.0cm}  
19 \fancypageheadrule
```

After setting up the colors, fonts, table of content...





Templates



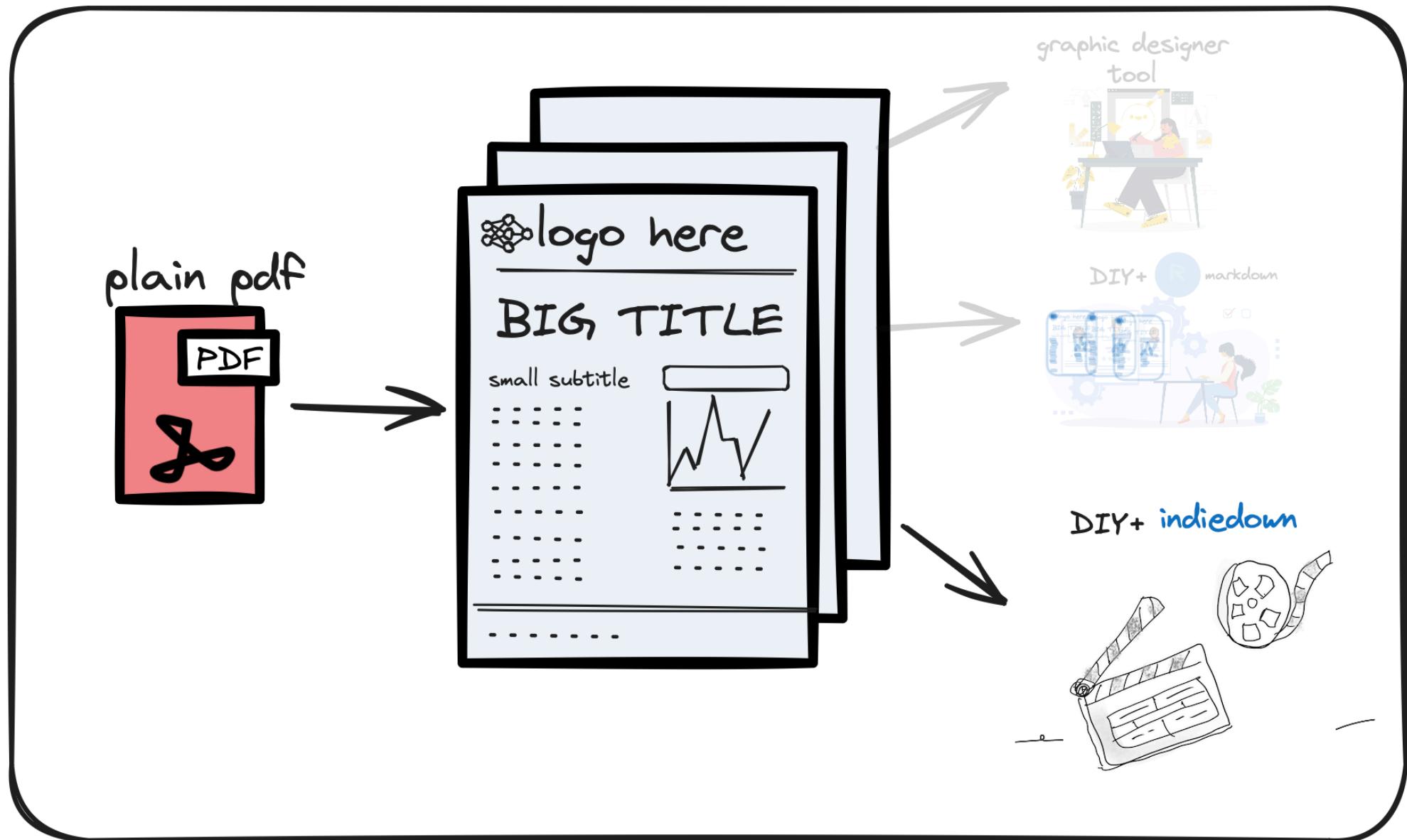
- Create R Markdown templates in 3 steps from Chapter 13 in rstudio4edu
 1. `use_rmarkdown_template()`
 2. Create your template
 3. Confirm that your template is accessible

Some issues

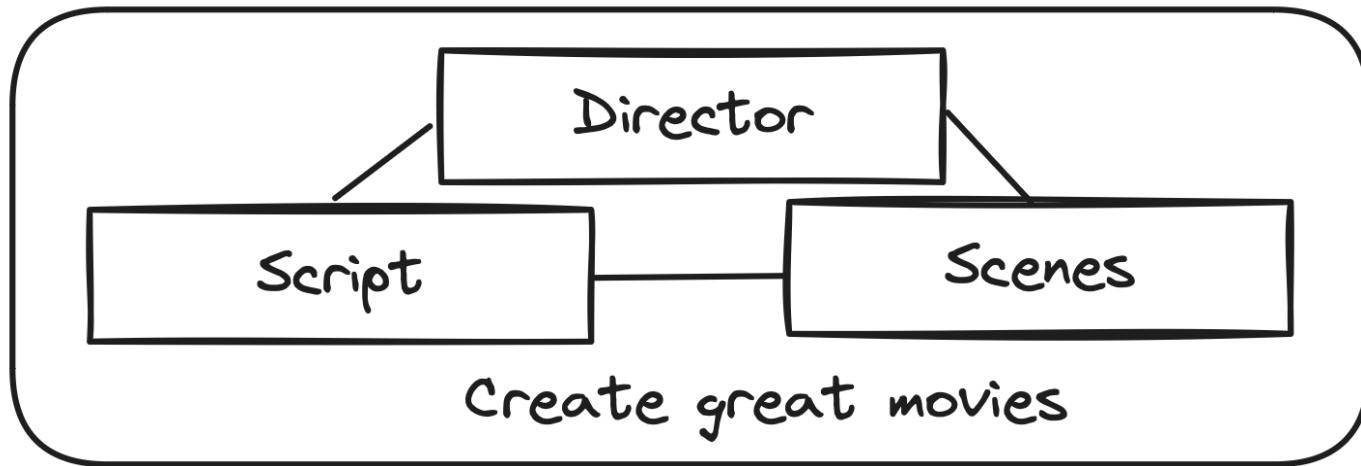
- no idea about the errors
- no idea about Latex
- Some elements missing



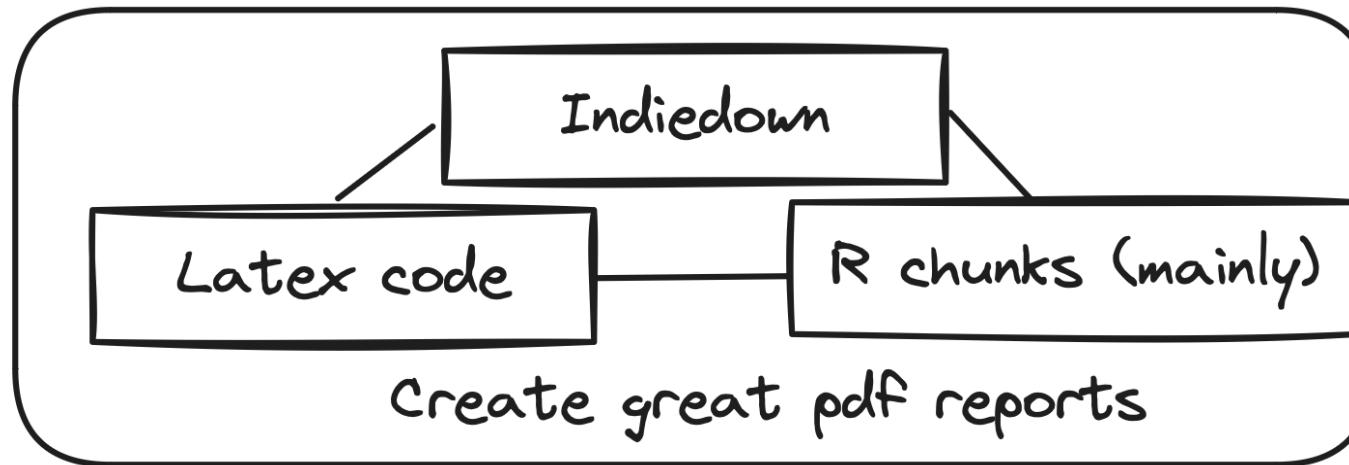




Indiedown

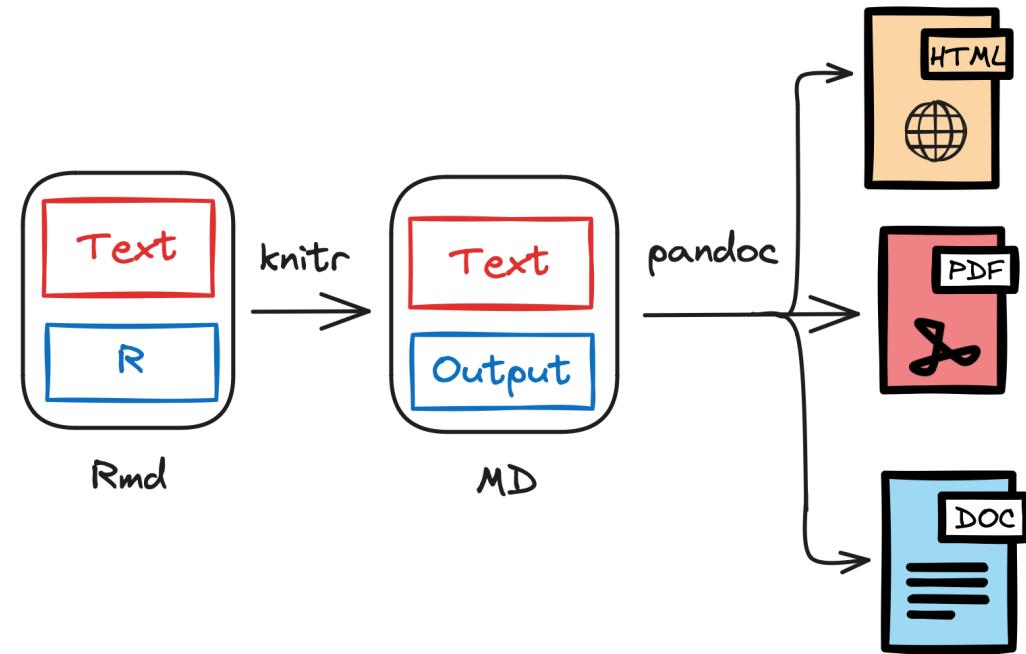


Indiedown



Indiedown

- Keep all corporate design elements as  code
- *indiedown* does not modify the default `.tex`. Extends Pandoc `.tex`



Indiedown - First steps

Installation

```
1 install.packages("indiedown")
```

Create your own package

```
1 indiedown::create_indiedown_package("templateuser2024")
```

Build your package using *Build and Reload* in RStudio or with:

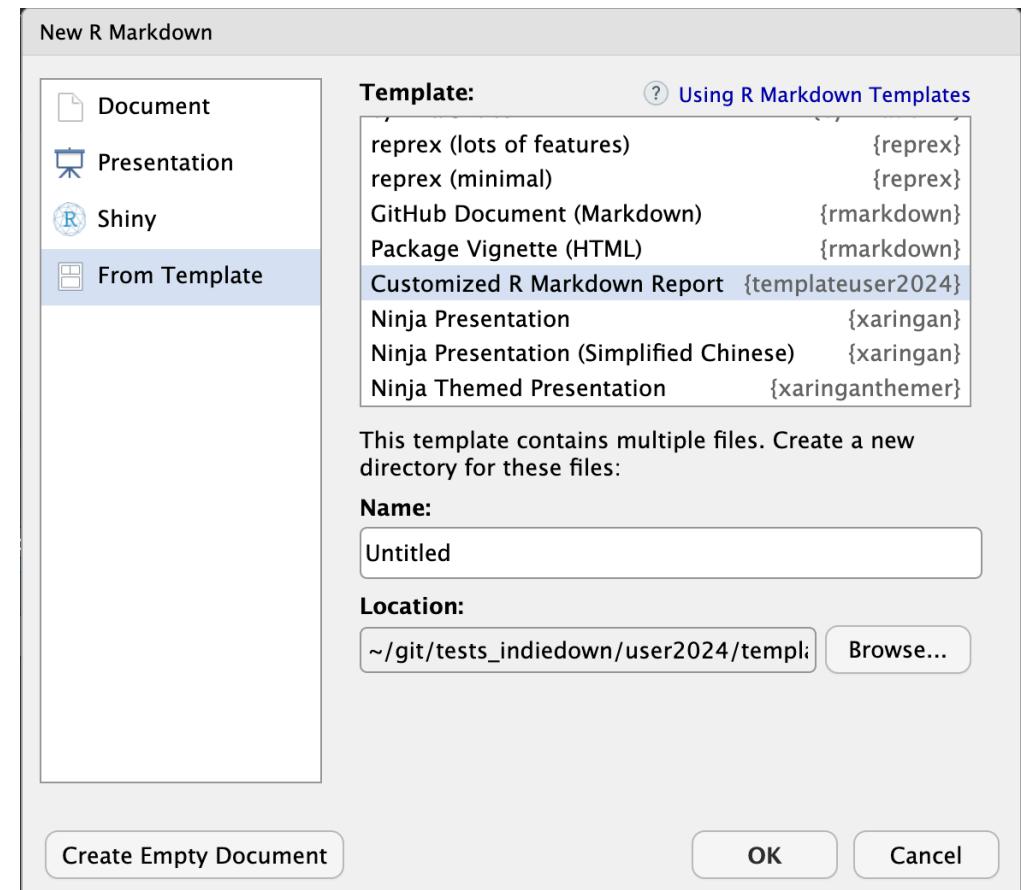
```
1 devtools::install("templateuser2024")
```

You have created the first template



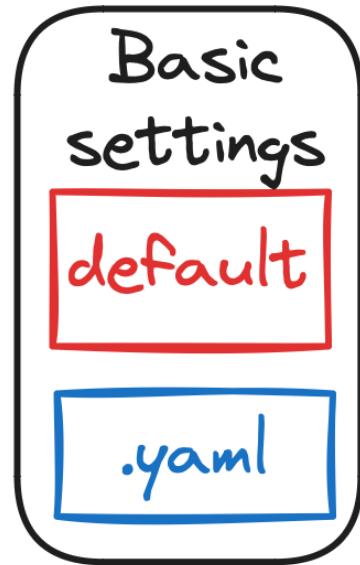
You have created the first template

After the new package is built and installed, you will have available the new template (after restart)

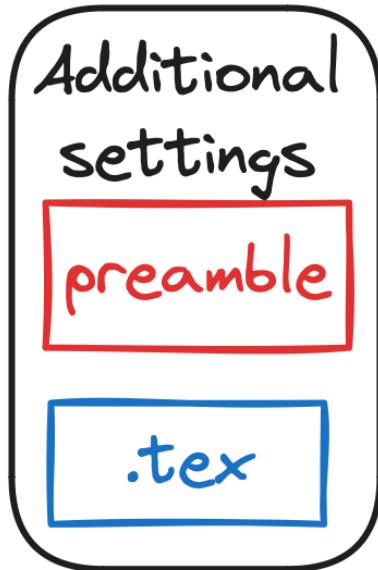
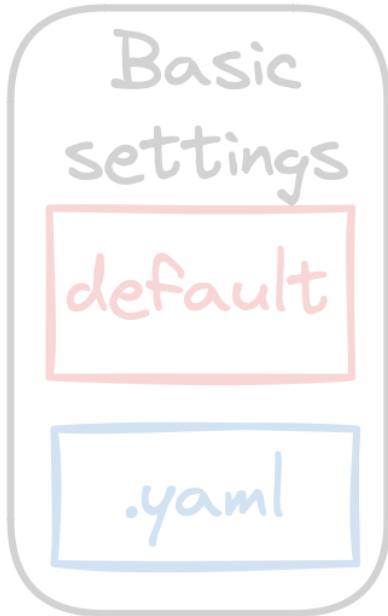


How to customize the new template?

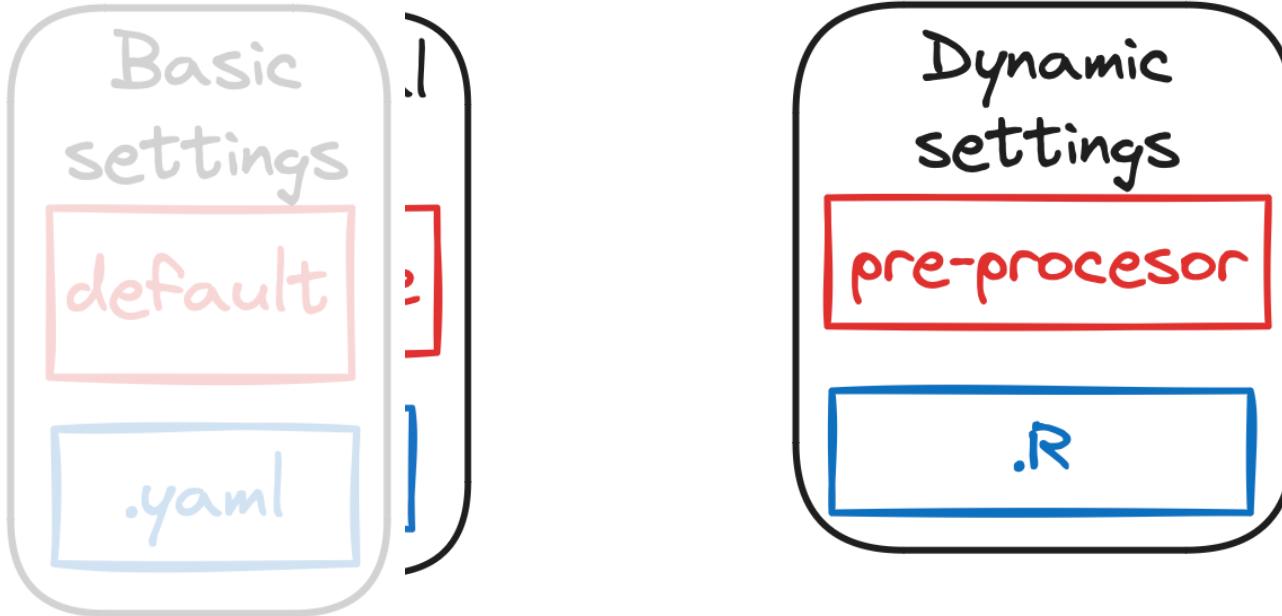
Customization points



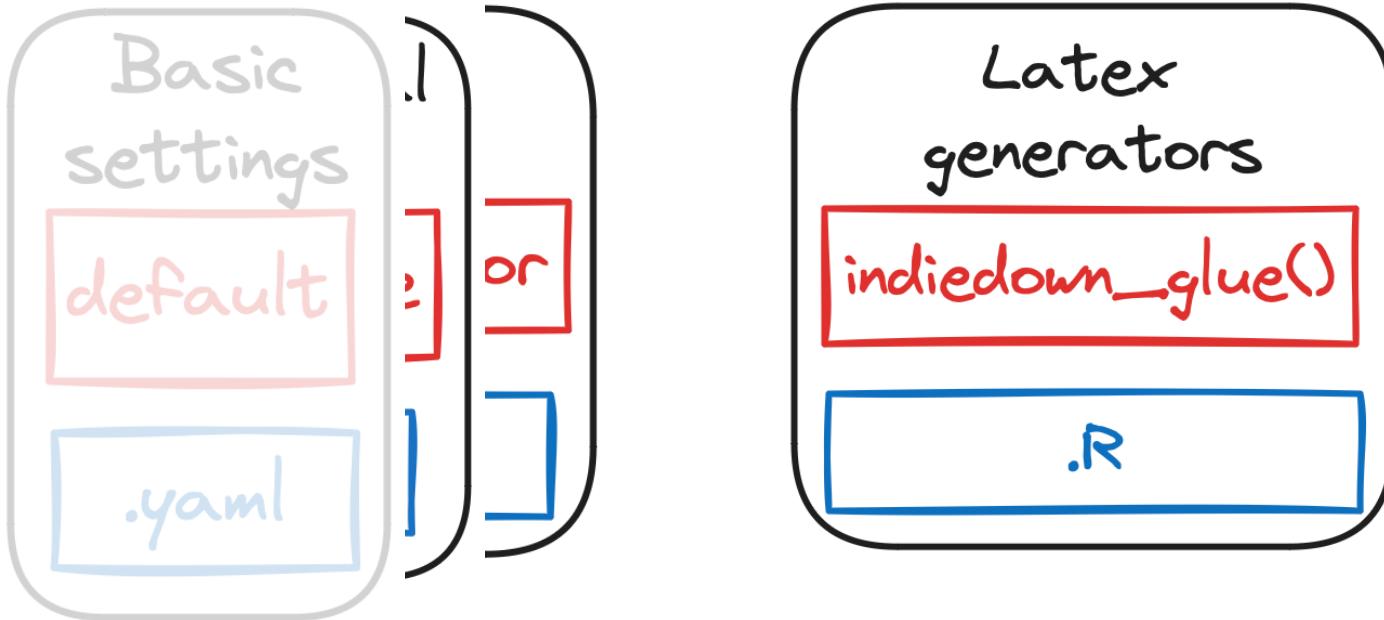
Customization points



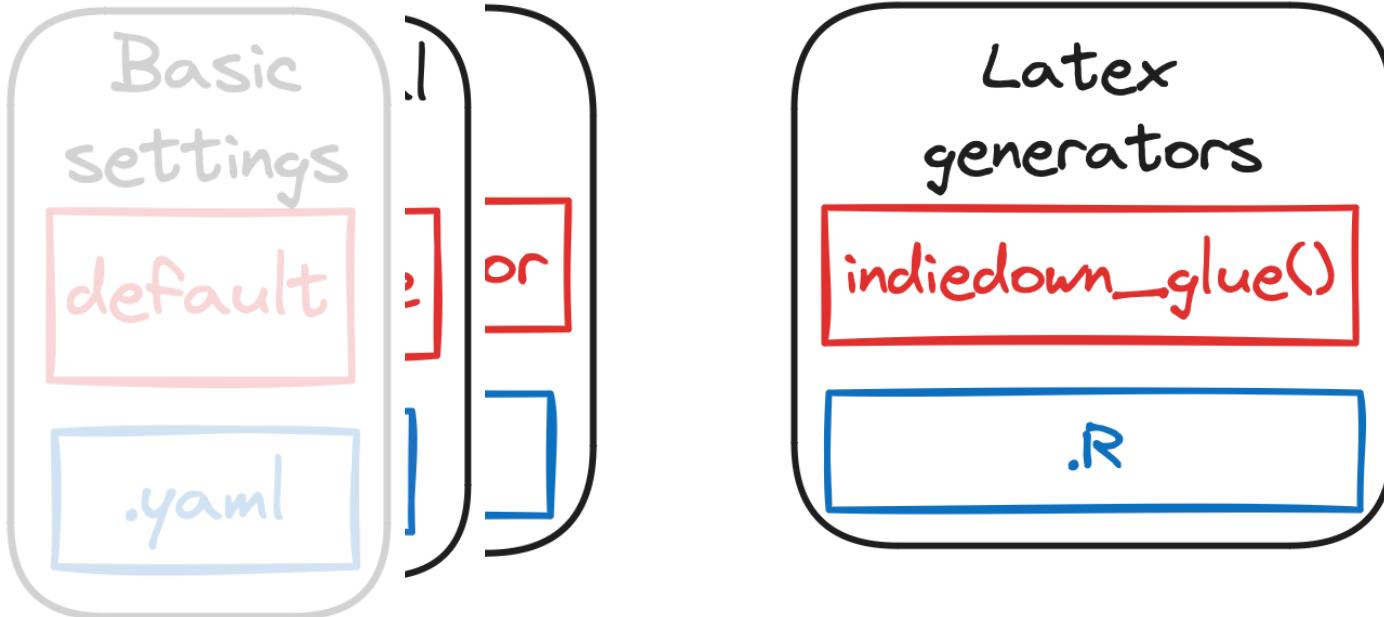
Customization points



Customization points

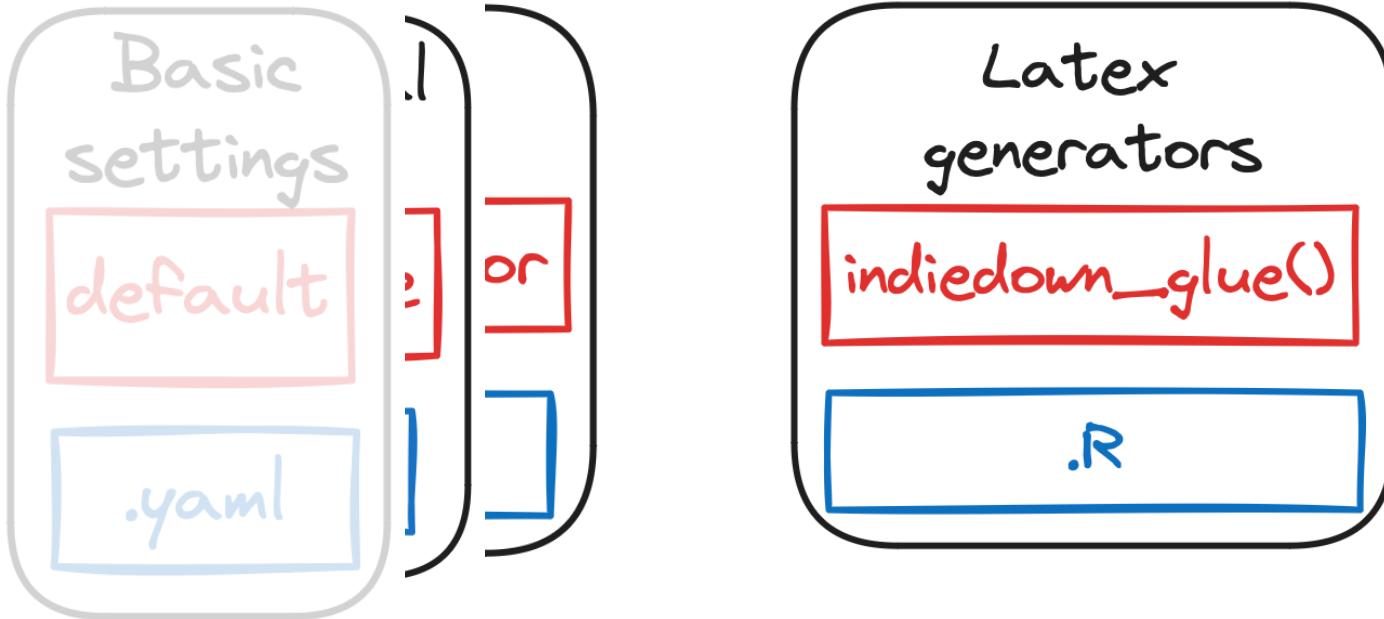


Customization points



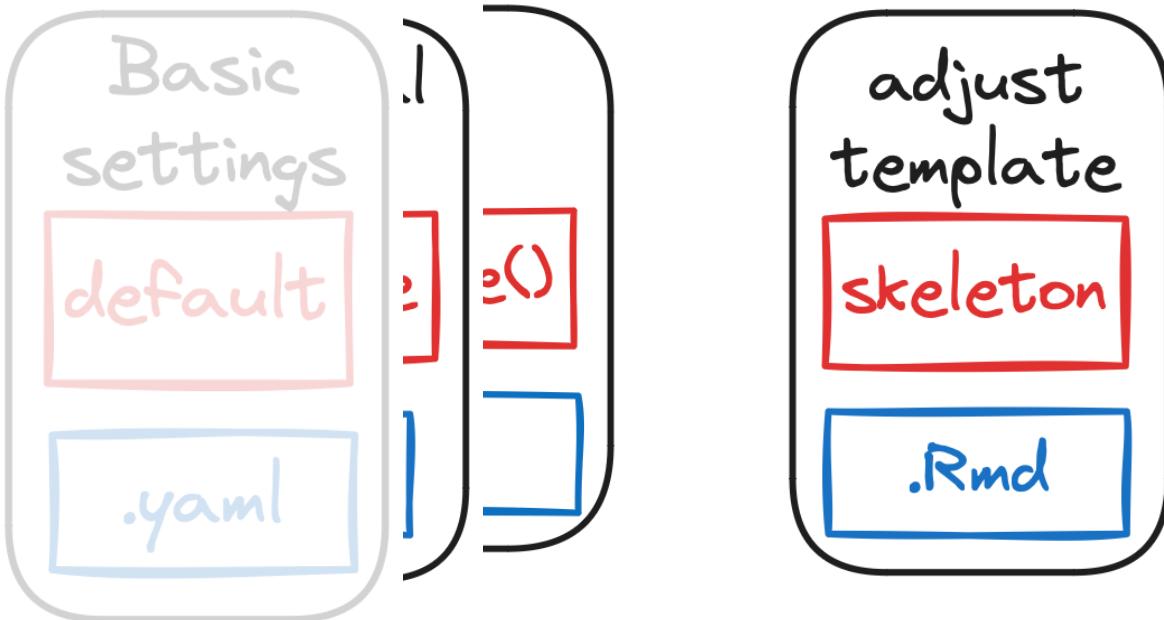
```
1 cd_header <- function(header_text_right = "",  
2                           header_text_left = "") {  
3   indiedown_glue(  
4     r"  
5       \newcommand{\hcrule[3][black]{\textcolor{#1}{\rule[-2mm]{#2}{#3}}}  
6       \thispagestyle{fancy}  
7       \fancyhead[LE]{\thepage \hcrule[dunkelorange]{.5mm}{7mm} <<header_text_right>>}  
Angelica Becerra - https://indiedown.cynkra.com/
```

Customization points

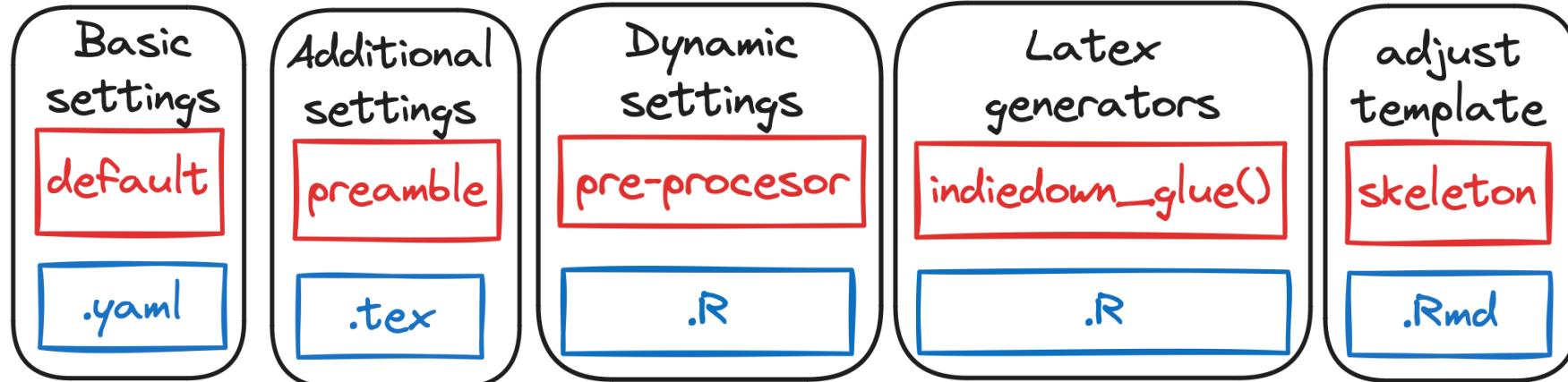


```
1 cd_header(header_text_right = "Statistische Mitteilung 2/2022",  
2           header_text_left = "Wohnbevölkerung der Politischen Gemeinden 2023")
```

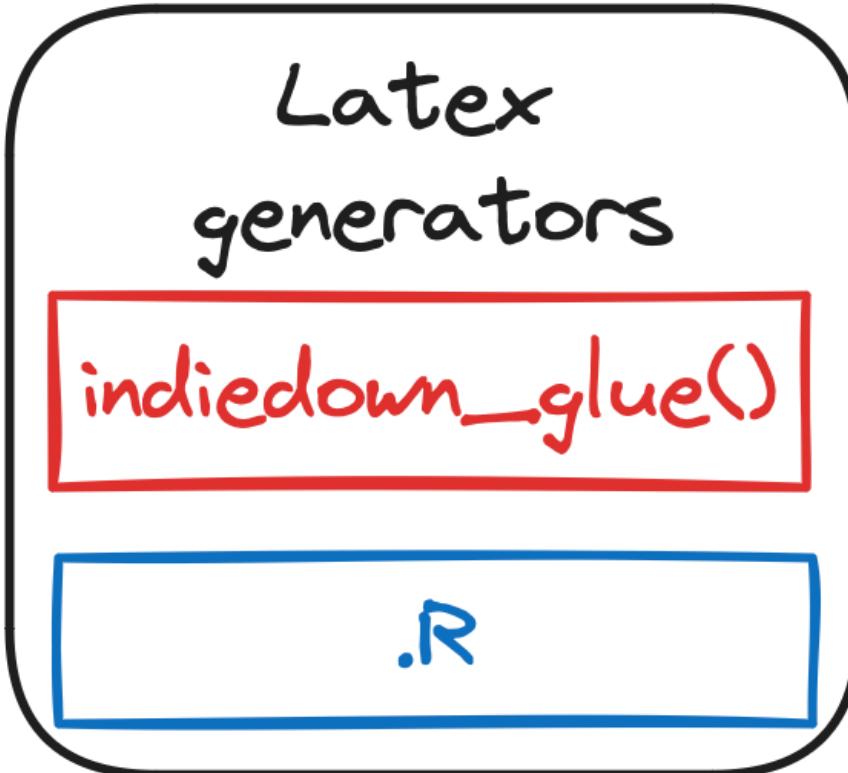
Customization points



Customization points



Main customization point



Convert the template

```
1 ---  
2 title: "Document with logo"  
3 header-includes:  
4   - \usepackage{graphicx}  
5   - \usepackage{fancyhdr}  
6   - \pagestyle{fancy}  
7   - \setlength\headheight{28pt}  
8   - \fancyhead[L]{\includegraphics[width=10cm]{logo_here.png}}  
9 output: pdf_document  
10 ---  
11  
12 \addtolength{\headheight}{1.0cm}  
13 \fancypagestyle{plain}{} the first page  
14 \thispagestyle{fancy}  
15 \fancyhead[L]{\includegraphics[width = 100pt]{logo_here.png}}  
16 \renewcommand{\headrulewidth}{0pt}
```

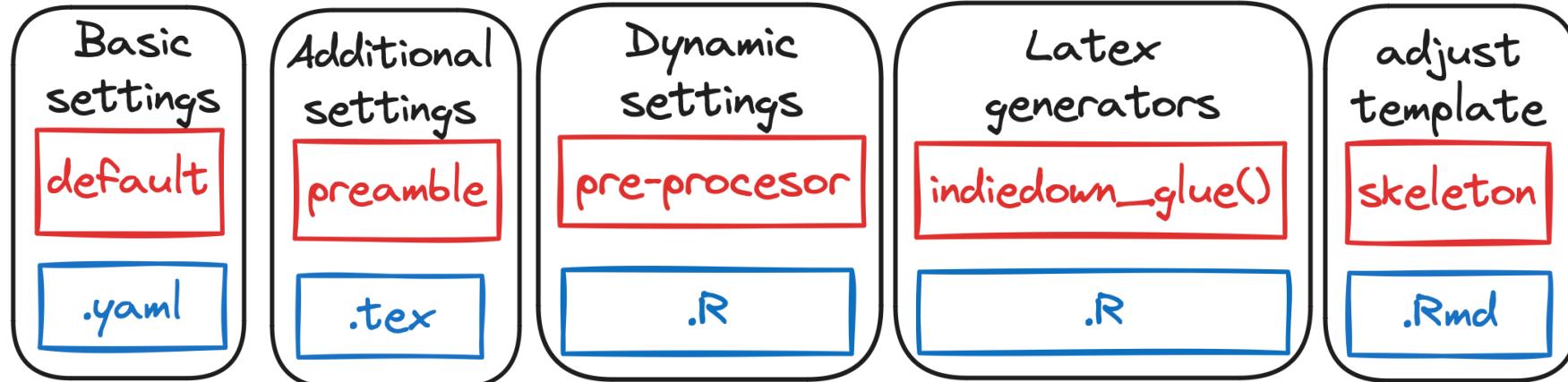
To this template

```
1 ---  
2 title: "Document with logo"  
3 output: templateuser2024::templateuser2024  
4 ---
```

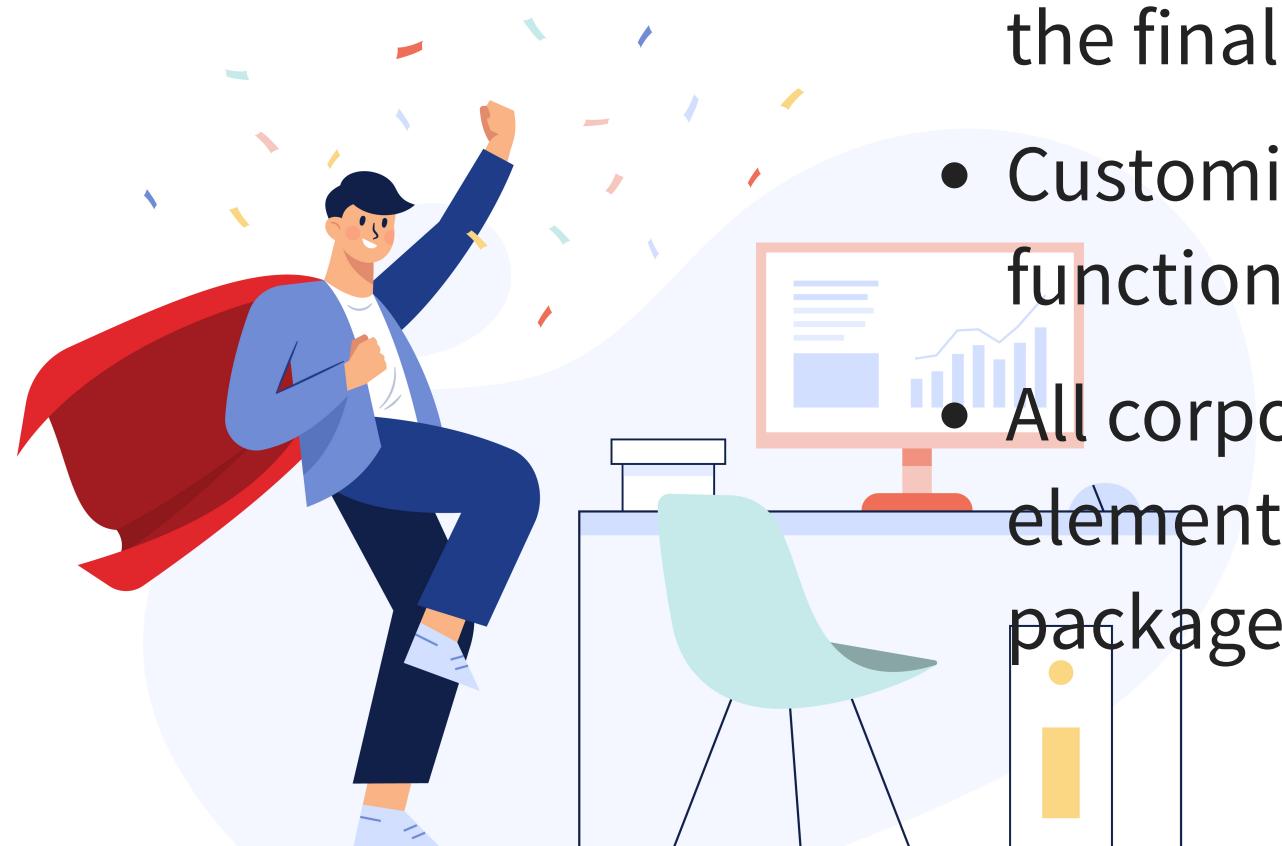
```
1 ````{r}  
2 library(templateuser2024)  
3 cd_knit_chunk_opts()  
4 ````
```

```
1 ````{r}  
2 cd_page_title()  
3 cd_footer()  
4 ````
```

Customization points

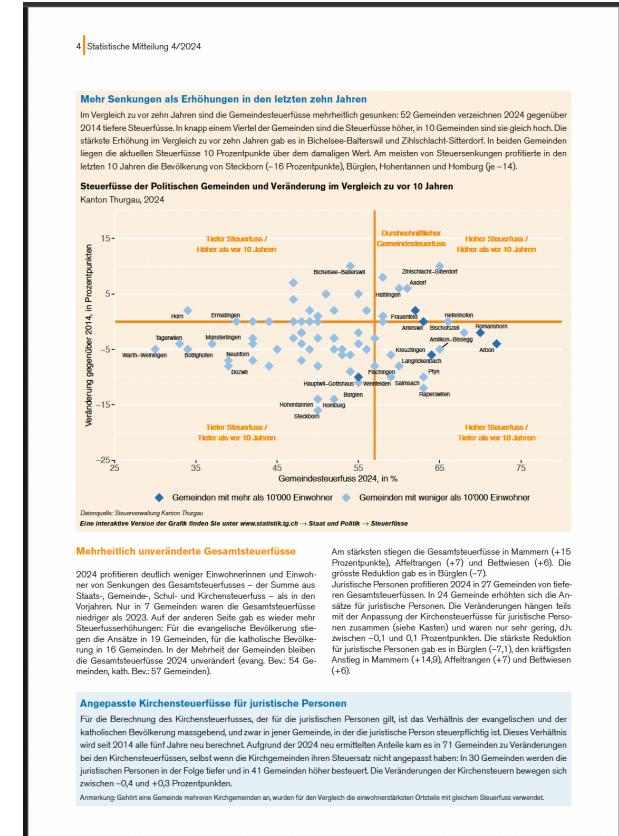
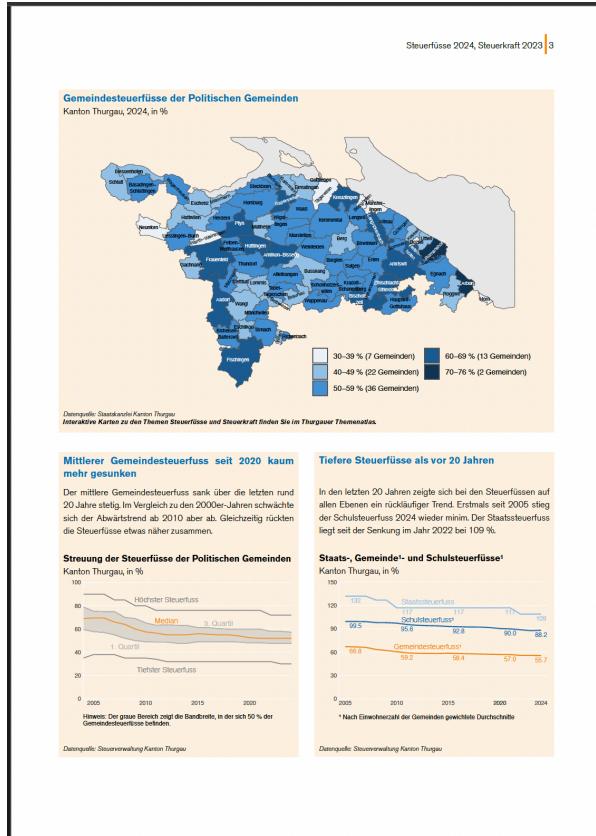


With indiedown

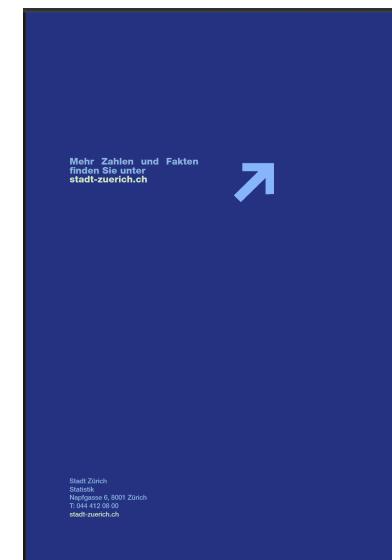
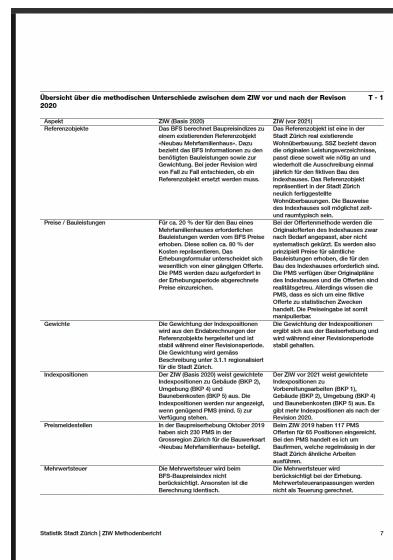
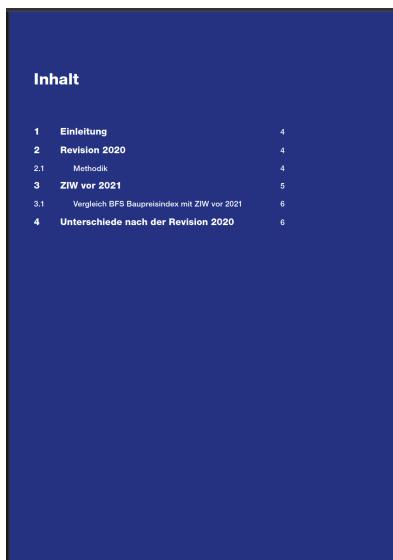
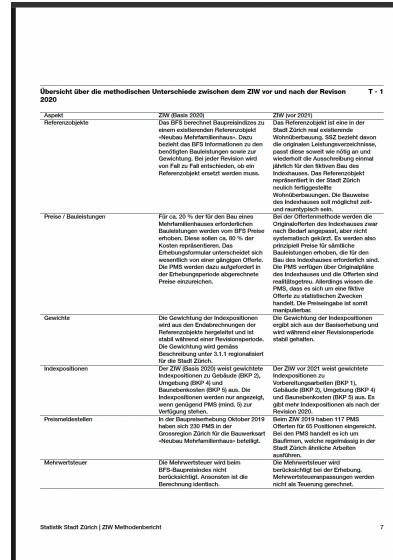


- The template is friendly to the final user.
- Customization in R functions.
 - All corporate design elements are in the package.

Publications using indiedown



Publications using indiedown



Quarto and Typst?



Thanks!

