# BOOKDOWN
DATA
COMMUNICATION

# FORCATS
DATA
WRANGLING

TOOLS AND PROGRAMMING LANGUAGES

BENJAMIN HABERKORN UND ALEXANDER KLEINE

# CONTENT

- What is blogdown?
- How is blogdown structured?
- Example and operations of Blogdown
- How to use forcats?
- Data Source : OpenWeather
- Examples with Forcats

# WHAT IS BLOGDOWN?

- Provides an ecosystem for creating complex websites
- Uses only html, css and javascript and works without any other scripting languages like php
- Individual websites or blog entries can be generated via an RMarkdown document

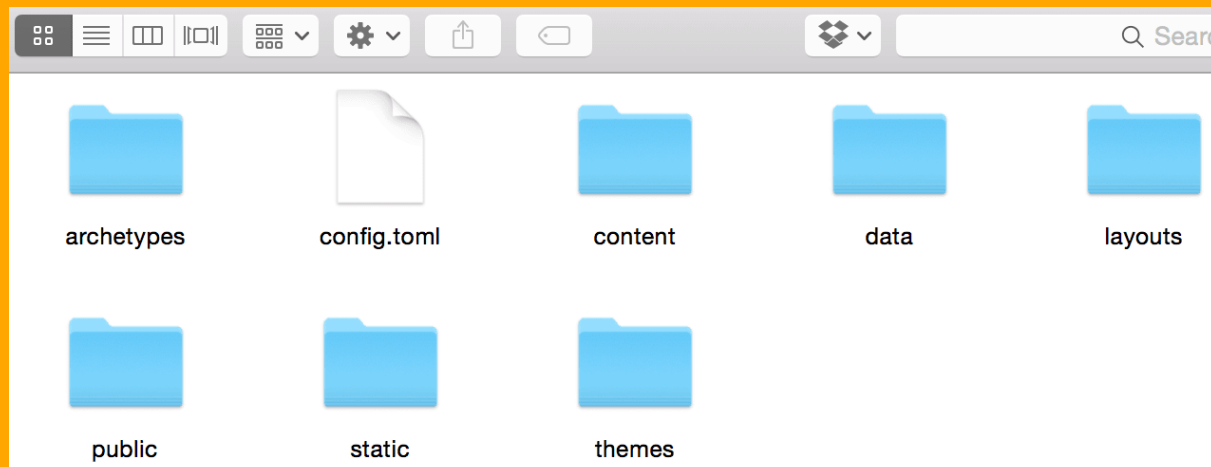
# WHAT IS BLOGDOWN?

- There are many ready-made themes for every application
- Offers simplified setting options via YAML metadata
- Easy publication through plugins for Github Pages or other platforms

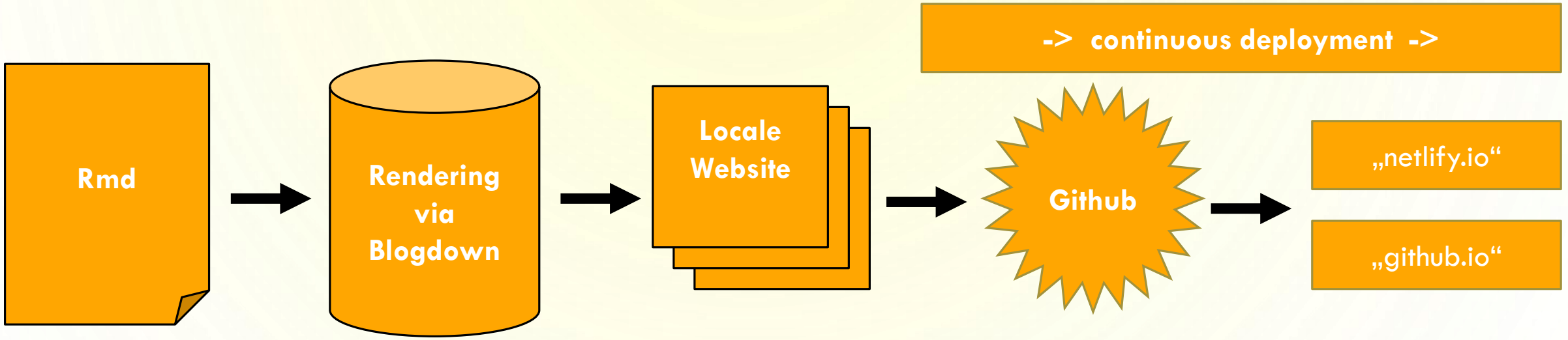
# HOW IS BLOGDOWN STRUCTURED?

- "config.toml" is the configuration file for the generated website.
- Your Rmd files are saved and converted at the folder "content"
- For the upcoming website ecosystem you use "public"

Default file structure:



# HOW IS BLOGDOWN STRUCTURED?



# ONLY A FEW COMMANDS

- Installation of the particular package as a setup
  - install:packages (“blogdown”)

- Two steps to render you Rmd file
  - blogdown::(build_site)
  - blogdown::(serve_site)

# EXAMPLE AND OPERATIONS OF BLOGDOWN

# HOW TO USE FORCATS?

- Provides tools to solve common problems with factors

- Factors are used for categorical variables
  - Fixed set of possible values

    Blue, Green, Yellow II 1, 2, 3

    S < M < L II 1 < 2 < 3

# DATA SOURCE

- A free API for weather forecasting
  - Current and historical weather data
- API-key is needed to use the data
- Wrapper package for r that makes the functions available
  - owmr

# EXAMPLE AND OPERATIONS OF FORCATS

PUBLISHED VIA
BLOGDOWN:
https://bit.ly/2ppe3pC

# THANKS FOR THE ATTENTION

GITHUB:
HTTPS://T1P.DE/U4GM

PUBLISHED BLOGDOWN:
HTTPS://BIT.LY/2PPE3PC

# QUELLEN

- https://bookdown.org/yihui/blogdown/
- https://forcats.tidyverse.org/
- https://r4ds.had.co.nz/factors.html
- https://cran.r-project.org/web/packages/owmr/owmr.pdf