```
library(blogdown)

rladies_global %>%
  filter(city == 'Tbilisi')
```

Creating a website / blog

Steps to take

1. Install blogdown package
2. Choose a Hugo (site generator) theme
3. Customise your site
4. Serve site
5. Publish your site, eg through Github Pages or Netlify (not covered in this meetup)

Blogdown + Hugo

Creating a website/ blog has been made relatively easy with *blogdown* package (using rmarkdown) and Hugo site generator.

Awesome blogdown

Full list and how to add own blog to the list on the Awesome Blogdown site and its github

Blogdown demo site

Blogdown + Hugo

- Building a static website - website only consists of static files such as HTML, CSS, JavaScript, and images, etc
- Host on any website (does not require PHP)
- Generated from (R) Markdown documents - can turn posts into PDF, easily reproducible, etc.
- Different ways to generate the site (Hugo, Jekyll)

Read more here: https://bookdown.org/yihui/blogdown/

Install blogdown

```
install.packages("blogdown")
```

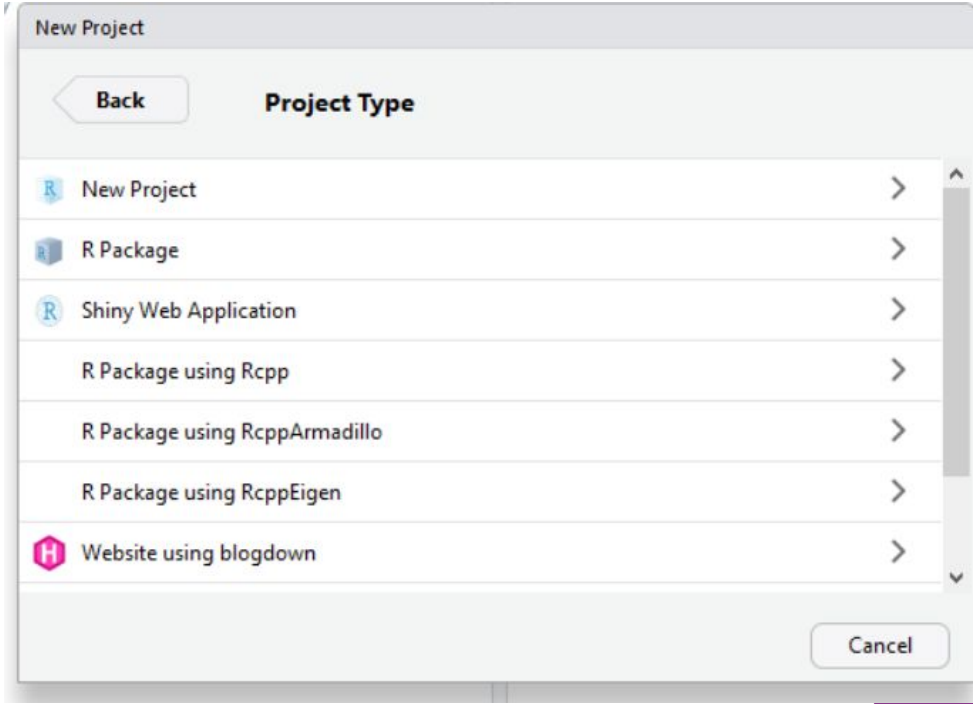
```
library(blogdown)
```

```
blogdown::new_site()
```

Or:

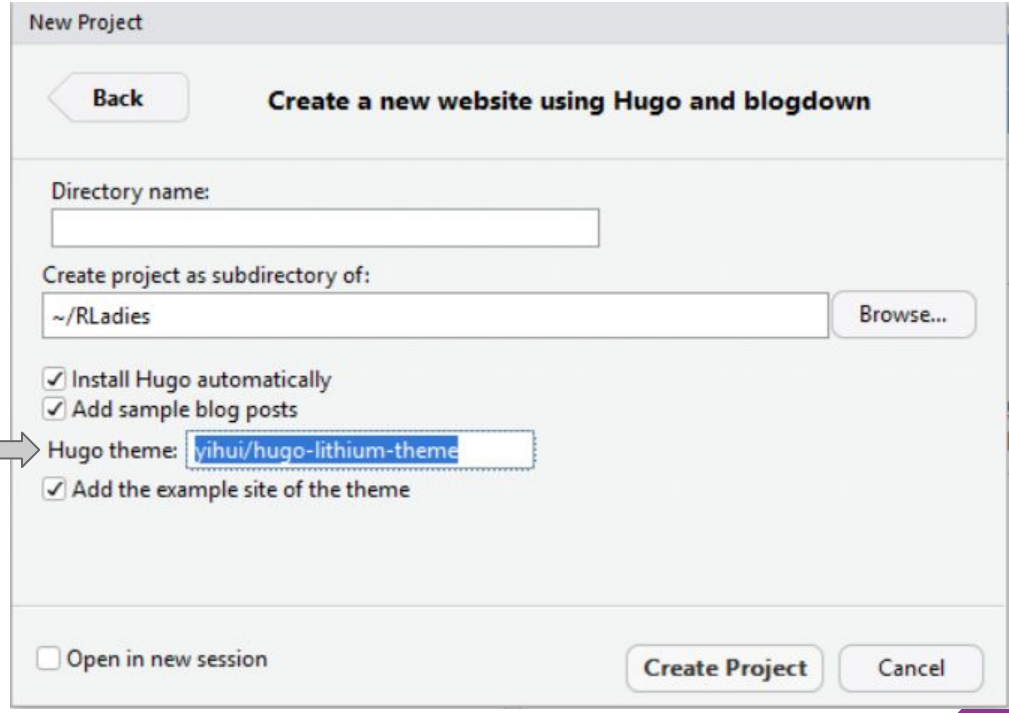
1) File → New Project → New Directory → New project
2) → Website using blogdown

(if have blogdown installed)



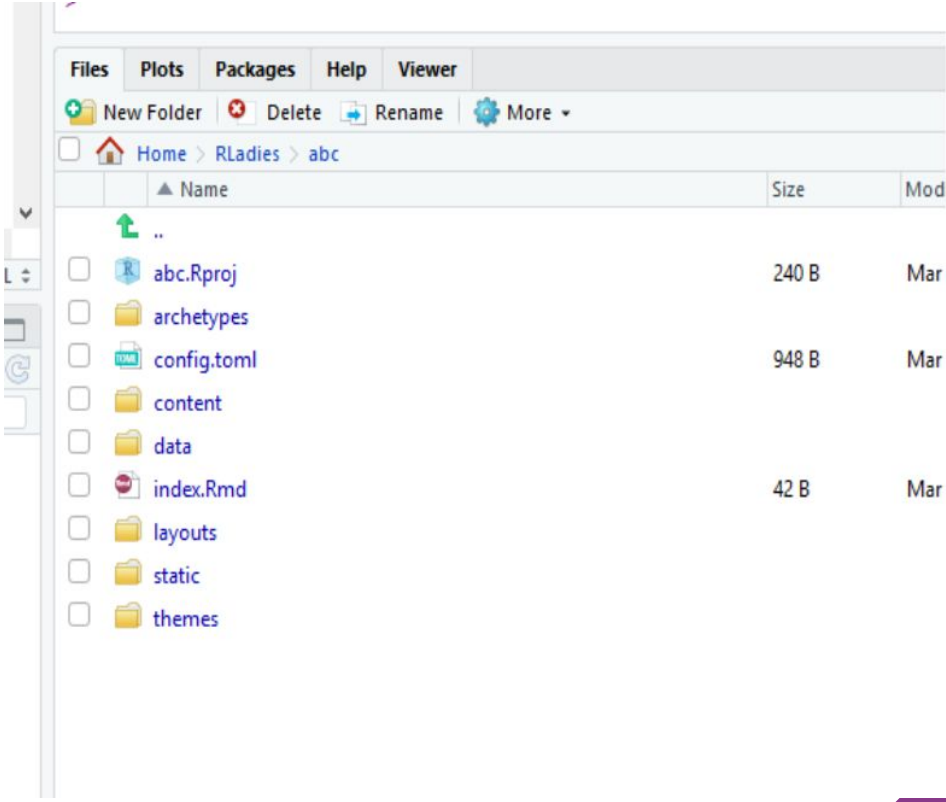
Choose the design or layout (Hugo theme)

1. Blogdown automatically installs Hugo
2. Choose a Hugo theme: https://themes.gohugo.io/ (default: Lithium)
3. To insert the chosen theme in RStudio, copy the respective link, e.g. “gcushen/hugo-academic”



Structure of the site

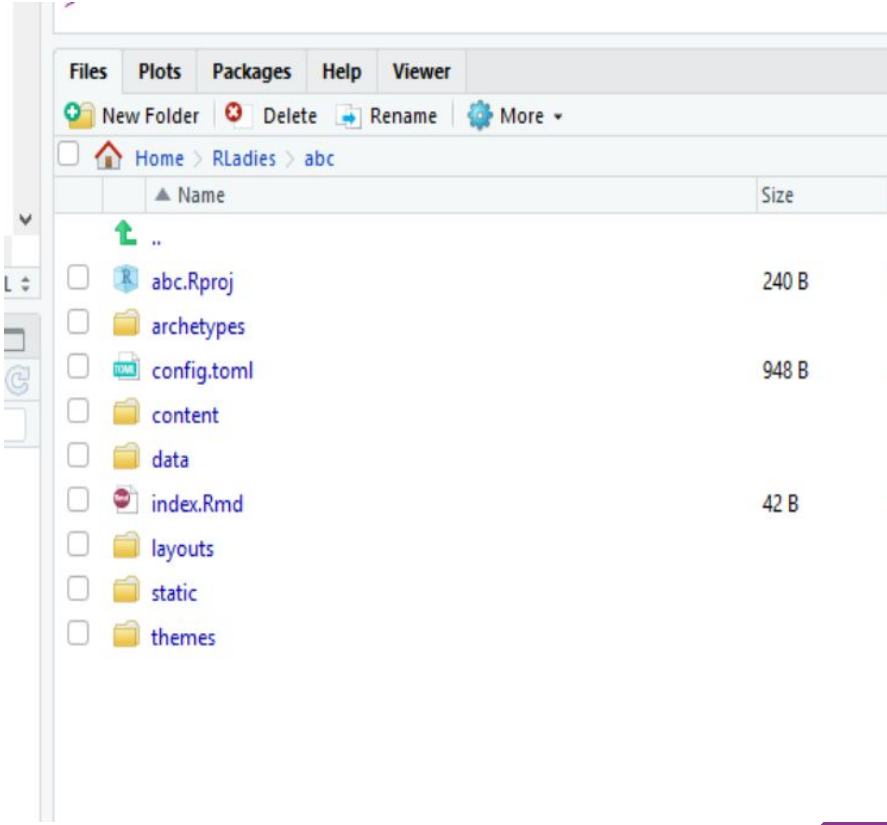
- Content of the website is created in the files of the project. The structure of each theme may vary.
- If using a theme connected to a github repo → don't edit the theme folder directly.



Take a look into the folders!

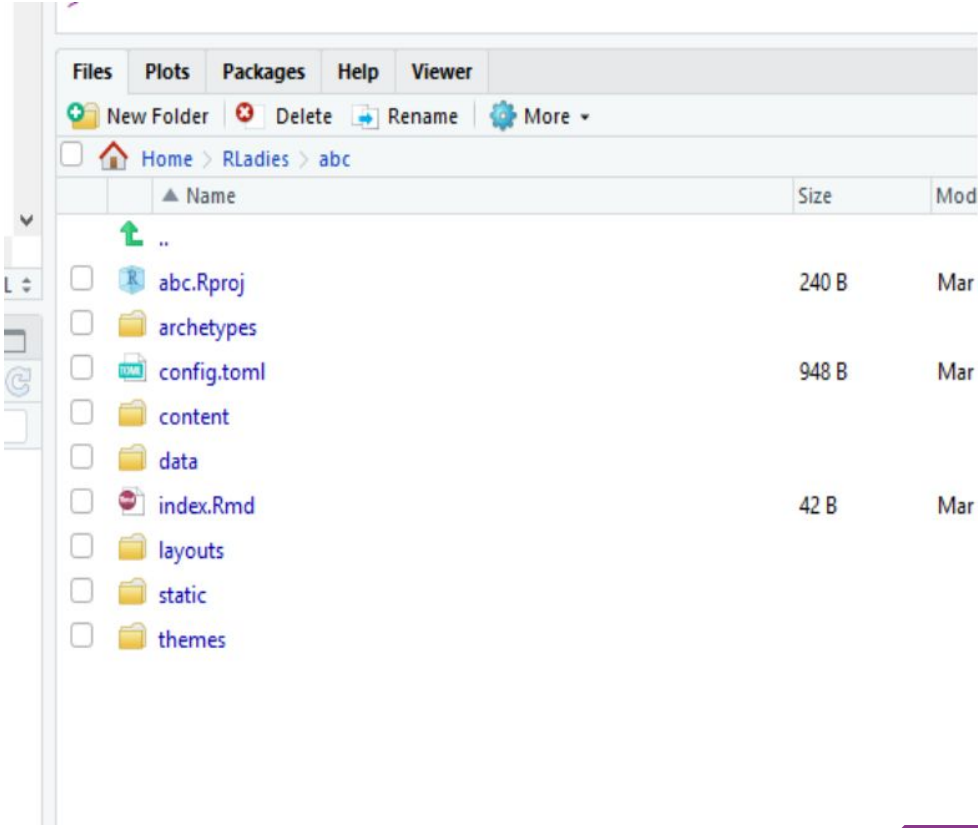
Customise your site

1. *config.toml* - the main structure of your site
2. *Content* folder includes your posts
3. Everything in the *public* folder will be published on the site
4. *Static* - the core of your site, preserves static content (images, CSS, JavaScript)
5. *Themes* - replicates files in the project root



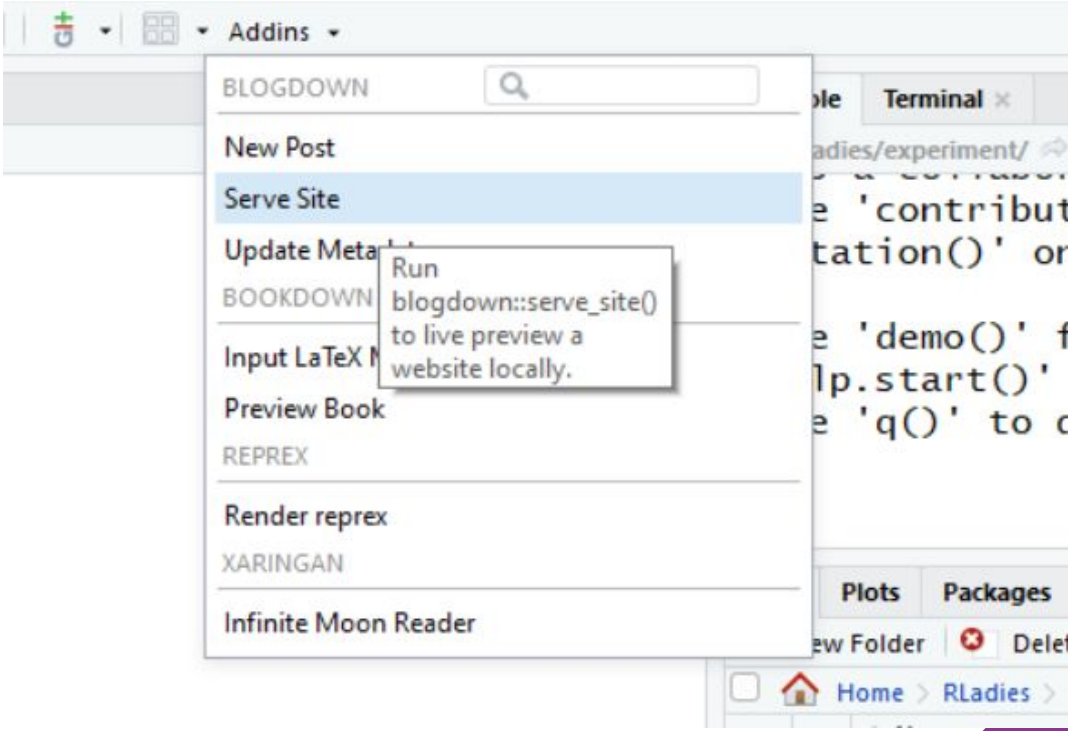
Empty folders in the root

1. *archetypes*
2. *data*
3. *layouts*
4. *static*



Serve site (Addins)

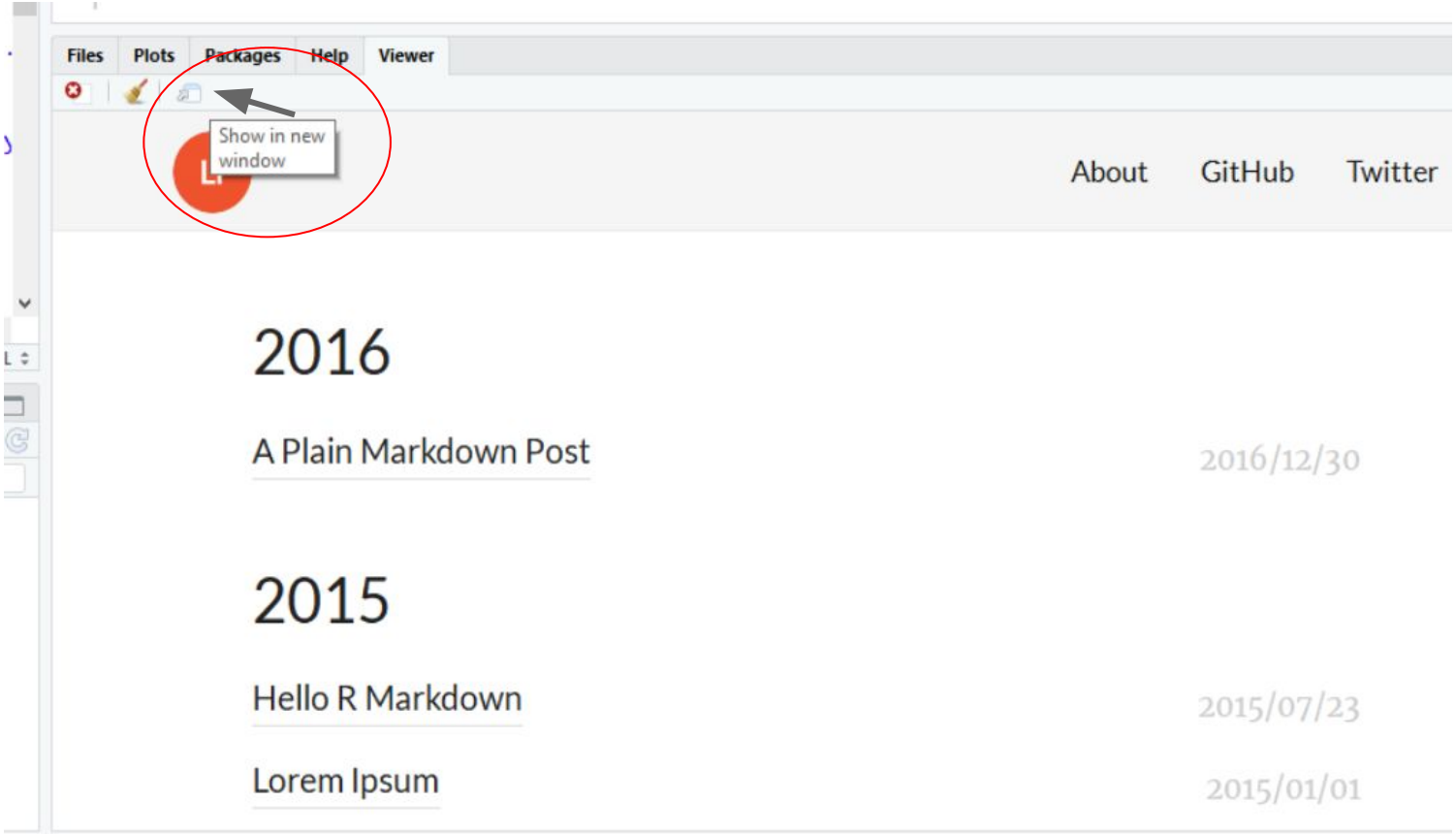
Choose the serve site option from the drop-down menu of Addins.



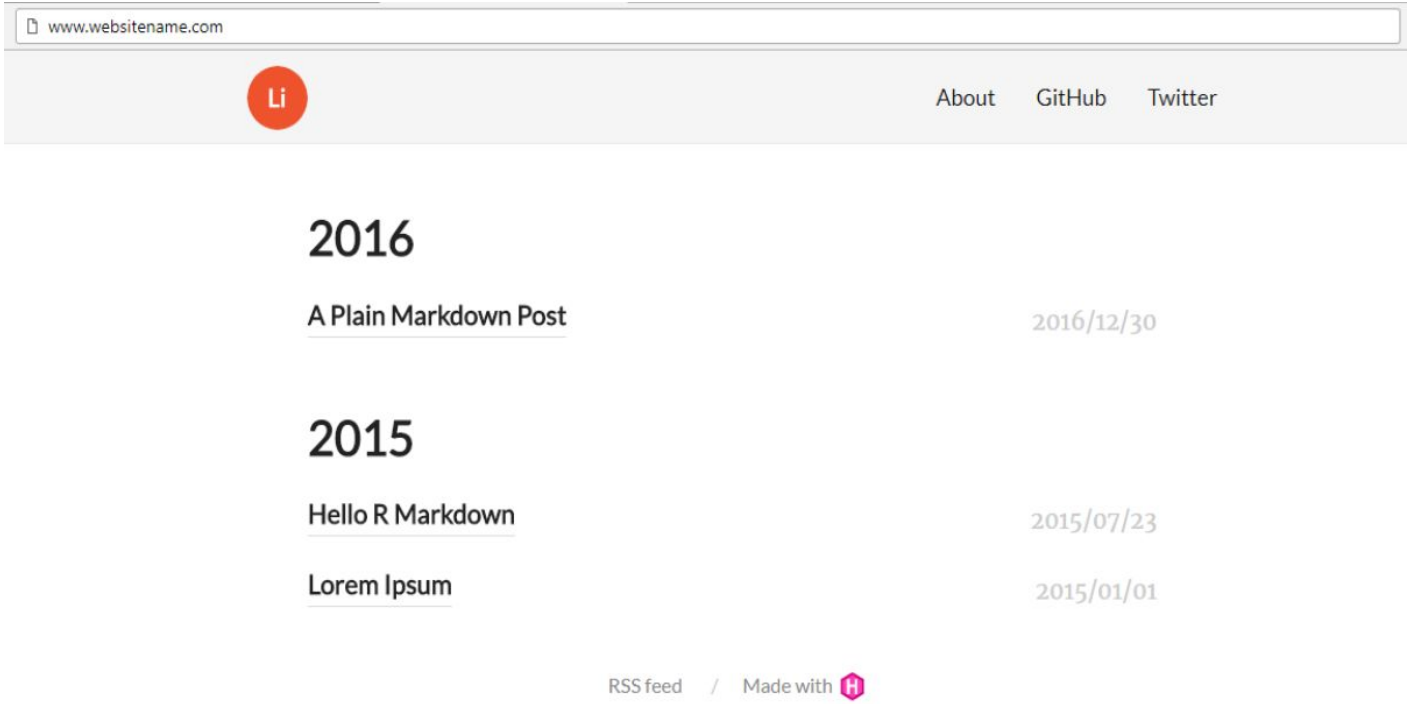
Or:

```
blogdown::serve_site()
```

View your site (RStudio Viewer)



View your site (browser)



Download files for today's meetup

https://github.com/liili/blogdown_meetup

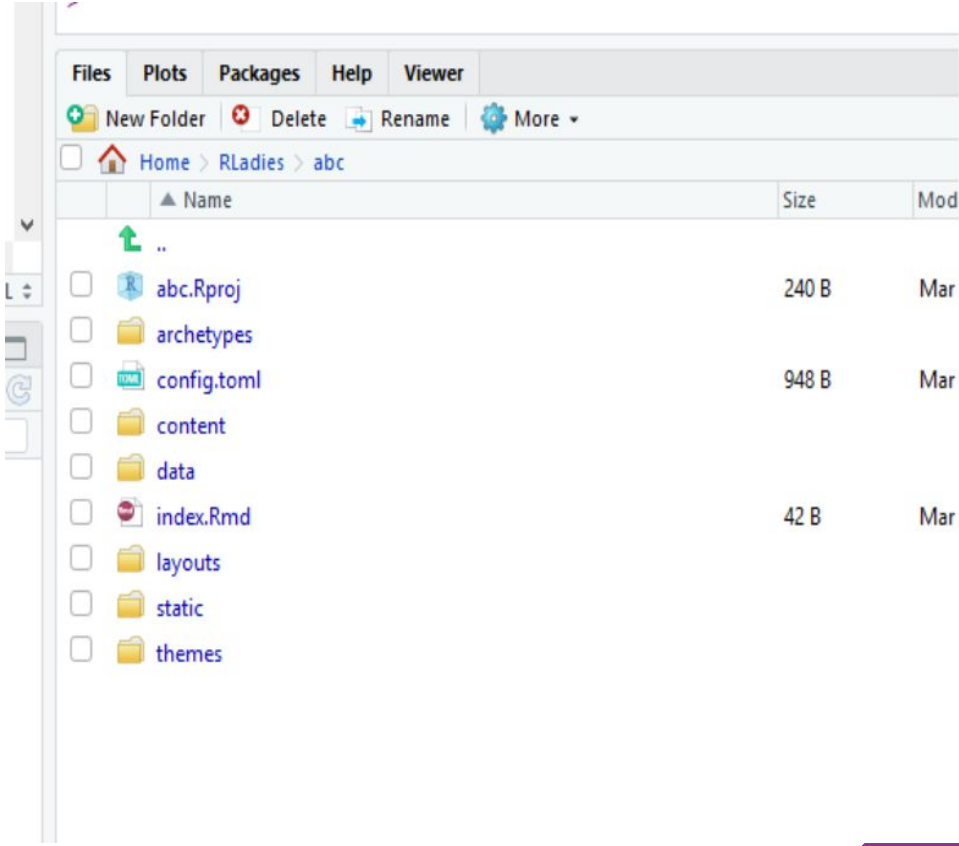
(They are also at:
https://github.com/rladies/meetup-presentations_tbilisi
/tree/master/Website)

Let's create a website for R-Ladies Tbilisi

1. File → New Project → New Directory → Website using blogdown
2. Name and choose the directory (folder), eg "rladiestbilisi"
3. Keep the default Lithium theme
4. Create website

Relying very much on Alison Hills' code and video

Take a look into the folders



Open the config.toml file from RStudio project files (½)

1. Baseurl = “/ ” → will have the link of your website
2. Title = “Give your website a title here”
3. Theme → keep the name of the theme you chose to use (the structure of the config.toml would be different for another theme)
4. enableEmoji = true (you will see emojis ❤ on your site!)
5. Under [params.logo] can specify the file of the logo you want to use for your site. This logo file has to be located in the static/ images folder.

config.toml file (2/2)

```
[[menu.main]]
    name = "ჩვენს შესახებ"
    pre = ""
    url = "/about/"
    weight = 1
```

name of the specific page (visible in the header)

“pre” specifies the symbol/ icon associated with page (e.g Twitter ; from https://fontawesome.com/)

“url” specifies the folder where content is taken from

“Weight” indicates the order of appearance of page (1st, 3rd) in the header

Getting font awesome

- Create a folder called “css” in your project’s “static” folder
- Copy-paste the file “font-awesome.css” from the shared materials to your project’s “static/css” folder
- Create a folder in your “layouts” folder called “partials”
- Move “head_custom.html” and “nav.html” files to “partials” folder
- Under `[params]` in config.toml file, add a line:

```
customCSS = ["css/font-awesome.min.css"]
```

- Fill the “pre” - field with respective icon code

“fa-music”  “fa-envelope-o”  “fa-user” 

Adding a logo

1. Copy jpg/png file “rlogo” from the shared materials to your project’s “static/images” folder
2. Under `[params.logo]` in config.toml file change the “url”:
   `url = "rlogo.jpg" / url = "rlogo.png"`

Adding site content (1)

1. Change the “About” page content
    a. Go to the “/content” folder in your project
    b. Open “about.md” file in R
    c. Edit the file by adding the following info:

```
# About this site
This site was created based on Alison P. Hill's
[**materials**]
(https://github.com/apreshill/blogdown-workshop)
```

Adding site content (2)

1. Copy file “2018-03-05-r-markdown.rmd” from the shared materials to your project’s “content/post” folder
2. Delete the default r-markdown post file
3. (We keep the other default posts in here for now)

Adding site content (3)

1. Add one `[[menu.main]]` to get posts back
2. Copy the “index.html” file from the shared materials to your project’s “layout” folder
3. Let’s have a look at what is in there - open the index file through RStudio
    a. It specifies a new variable called “chapter” (not part of Hugo, created by a user there)

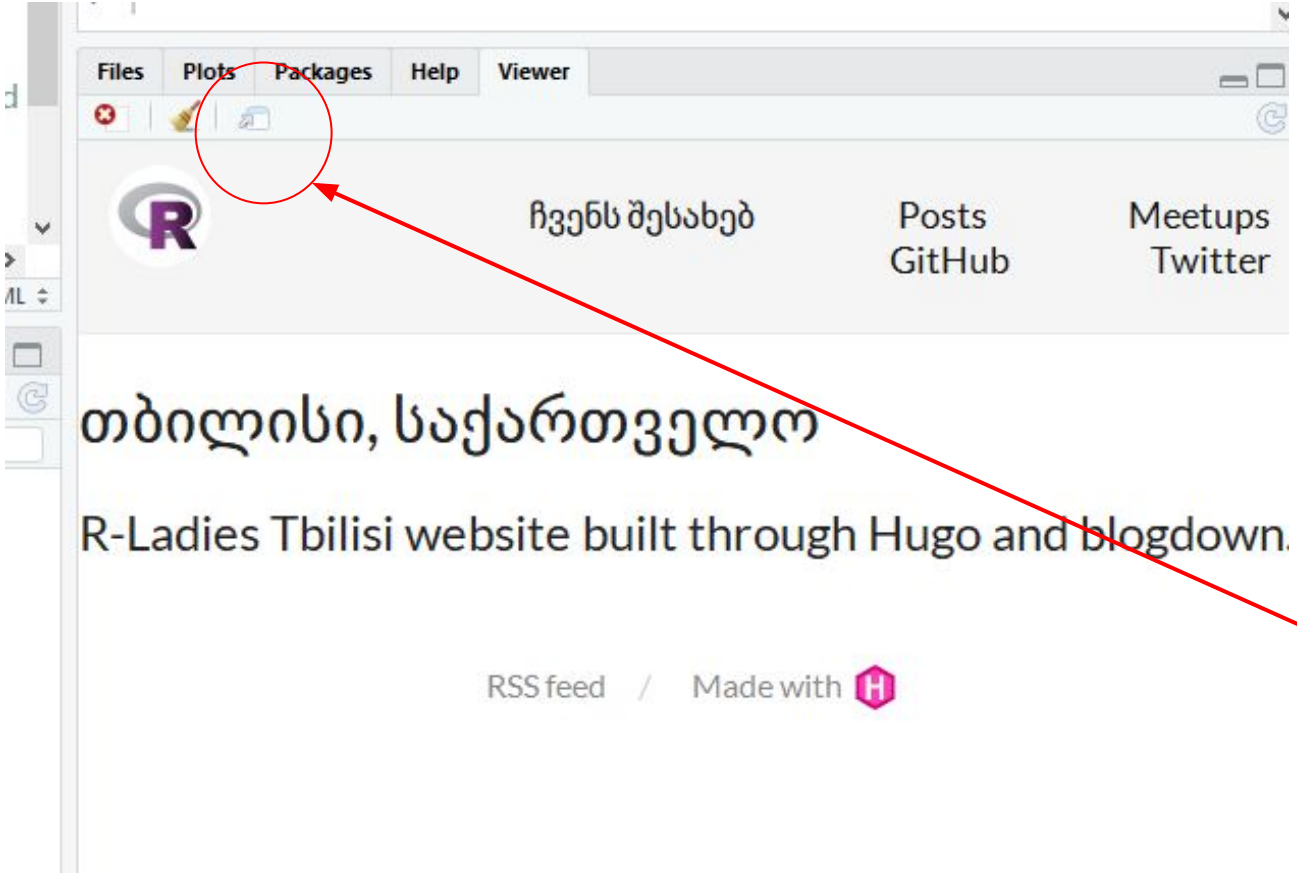
Last touches

- Change the “About” to “ჩვენს შესახებ” in `[[menu.main]]`
  - If it won’t work just by typing so, type it elsewhere (Notepad) and then copy paste to config.toml file
- Under `[params]` in config.toml file add:

```
chapter = "თბილისი, საქართველო"
```

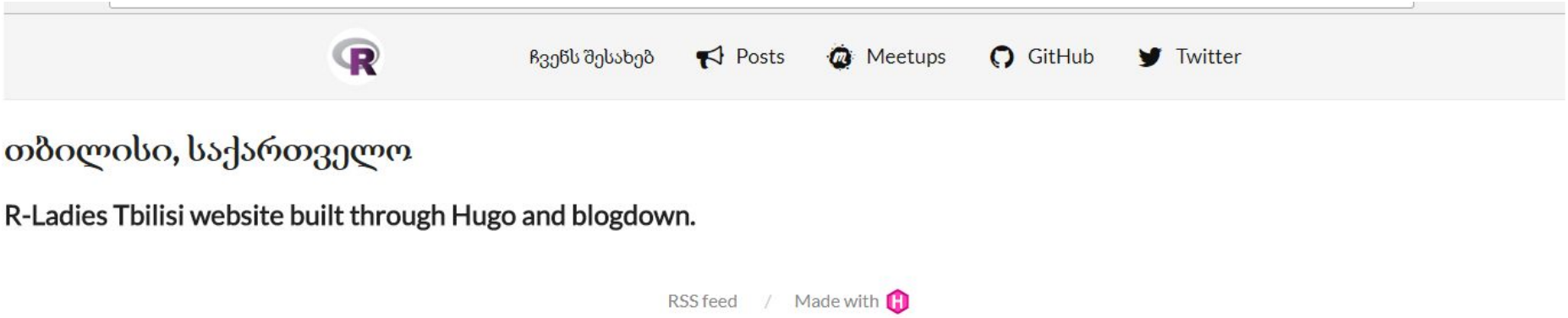
This is possible thanks to creating a “chapter” variable in the index file (located in the layout folder)

Show in new window (RStudio Viewer)



View bigger!

End-result in a browser



Publishing online

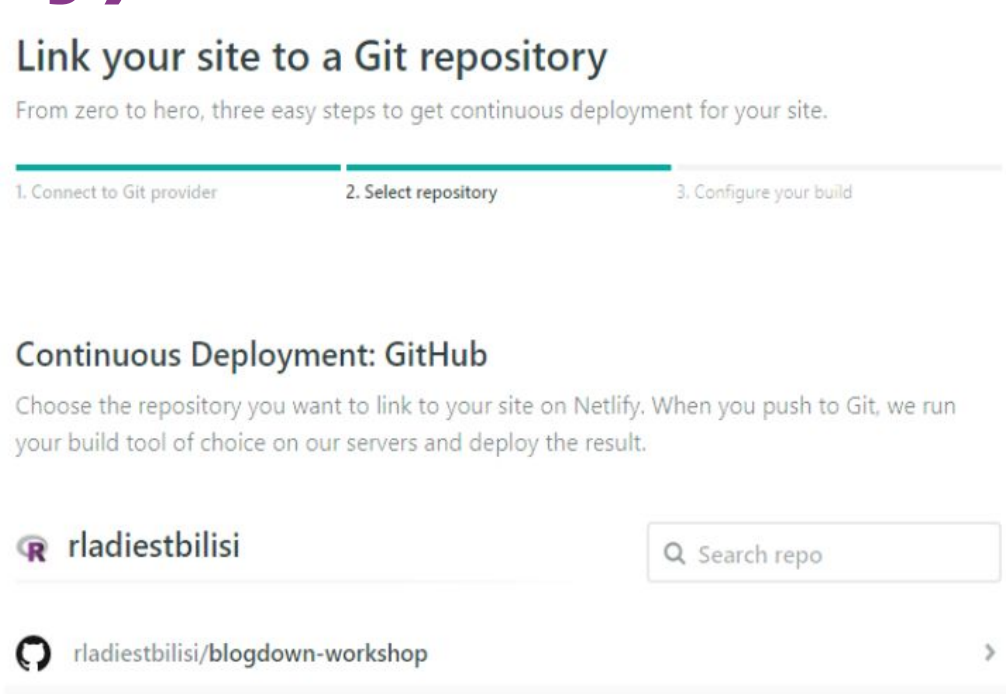
1. Connect your RStudio to Github first (1 x per computer).

   You can read how to do that *here*.

2. Commit and push to Git
3. Deploy through Netlify or Github Pages (must have an account first).

   Read about deployment *here*.

Continuous deployment (Netlify)

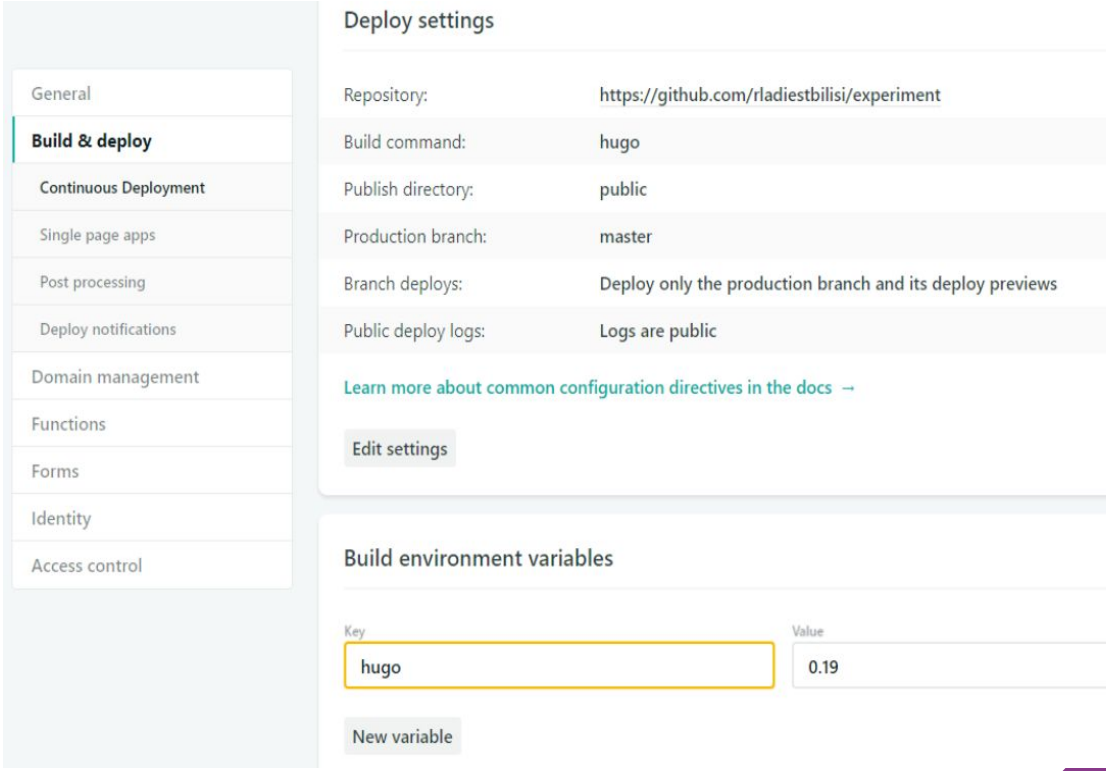


Specify Hugo variable

1. Find out the latest Hugo version

```
blogdown::hugo_version()
```

2. Enter hugo build variable (in Netlify)



Deploy website

More sources

blogdown: Creating Websites with R Markdown - book by Yihui Xie, Amber Thomas, Alison Presmanes Hill

Alison Hill blogdown workshop and video

Emily Zabor tutorial “Creating websites in R”

Mara Averick “Keeping up with blogdown”

Claudia Vitolo “Make your own blog”

Marie Dussault “Building your blog using blogdown”

Netlify and Hugo

Thank you!