

```
library(dplyr)  
  
rladies_global %>%  
  filter(city == 'Amsterdam')
```



# | BLOGDOWN

## CREATING BLOGS AND WEBSITES WITH R MARKDOWN



# Hello!

I'm **Aurore Paligot** and  
I create stuff with **data**.  
Visit my webpage [here](#).





***“R is a free software environment for statistical computing and graphics”***

*— The R Project for Statistical Computing*





# #Little guide to follow this tutorial



R beginner level



Blogdown installed



A GitHub account



The R Series

# blogdown

Creating Websites  
with R Markdown



**Yihui Xie**  
**Amber Thomas**  
**Alison Presmanes Hill**

 CRC Press  
Taylor & Francis Group  
A CHAPMAN & HALL BOOK

**“For blogdown, we hope users of all levels can at least get started as quickly as possible”**

-  Yihui Xie [@xieyihui](https://twitter.com/xieyihui)
-  Amber Thomas [@ProQuesAsker](https://twitter.com/ProQuesAsker)
-  Alison Presmanes Hill [@apreshill](https://twitter.com/apreshill)

# #Part 1: choose a template & write your first post

The screenshot shows the RStudio interface. On the left, the code editor displays an R Markdown file named '2019-11-14-hugo-blogdown-netlify.Rmd'. The code includes YAML front matter, R Markdown syntax, and a draft note. On the right, a browser window shows the generated static site content, featuring a pink header with the text 'Hugo + Blogdown + Netlify = a beautiful blog' and author information. Below the header is a draft note and a bulleted list of reasons for choosing this setup.

```
1+ ---  
2+ title: Hugo + Blogdown + Netlify = a beautiful blog  
3+ author: Aurore Paligot  
4+ date: '2019-11-14'  
5+ slug: hugo-blogdown-netlify  
6+ categories:  
7+ - R  
8+ tags:  
9+ - R Markdown  
10+ - blogdown  
11+ - Hugo  
12+ - Netlify  
13+ - GitHub  
14+ - blog  
15+ publishdate: '2019-11-14T23:54:53+01:00'  
16+ comments: yes  
17+ ---  
18+ #Hugo + Blogdown + Netlify = a beautiful blog  
19+ **This is a draft**  
20+  
21+ when thinking about building my own webpage, I was looking for an  
22+ - free  
23+ - easy  
24+ - quick  
25+ - beautiful  
26+  
27+ And voilà!
```



Template

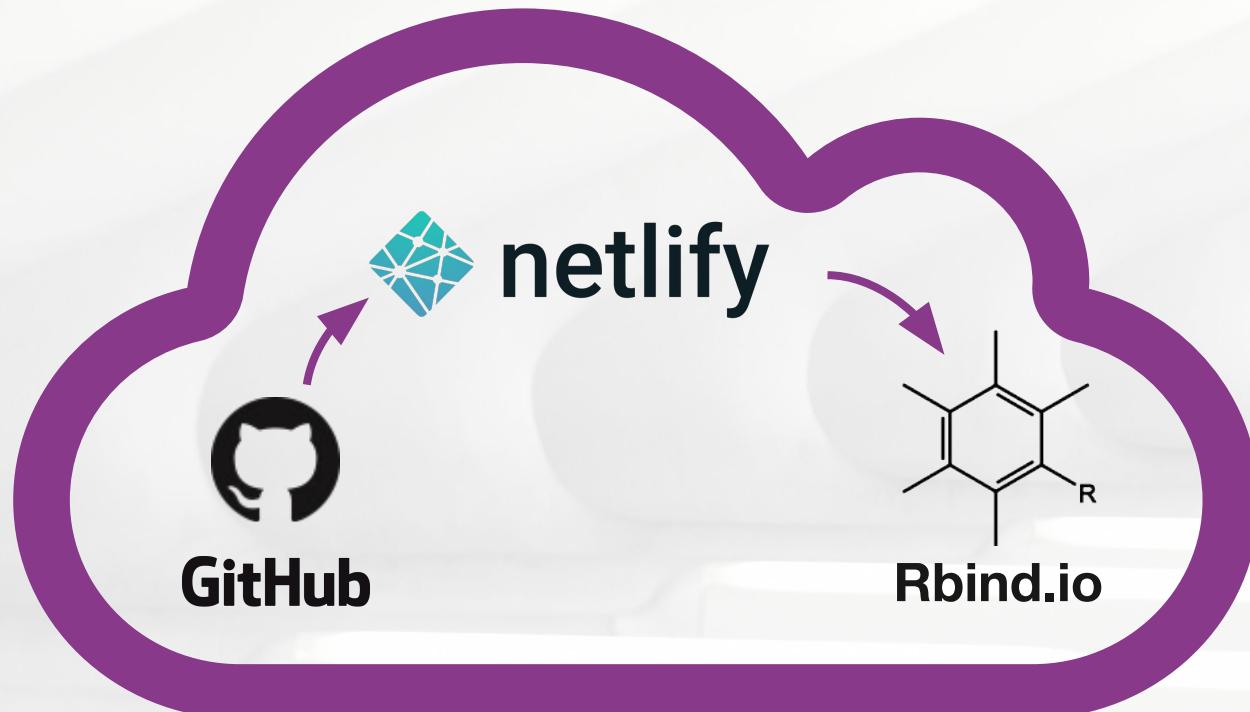


R package



Syntax

## #Part 2: deploy your website & personalize your domain name

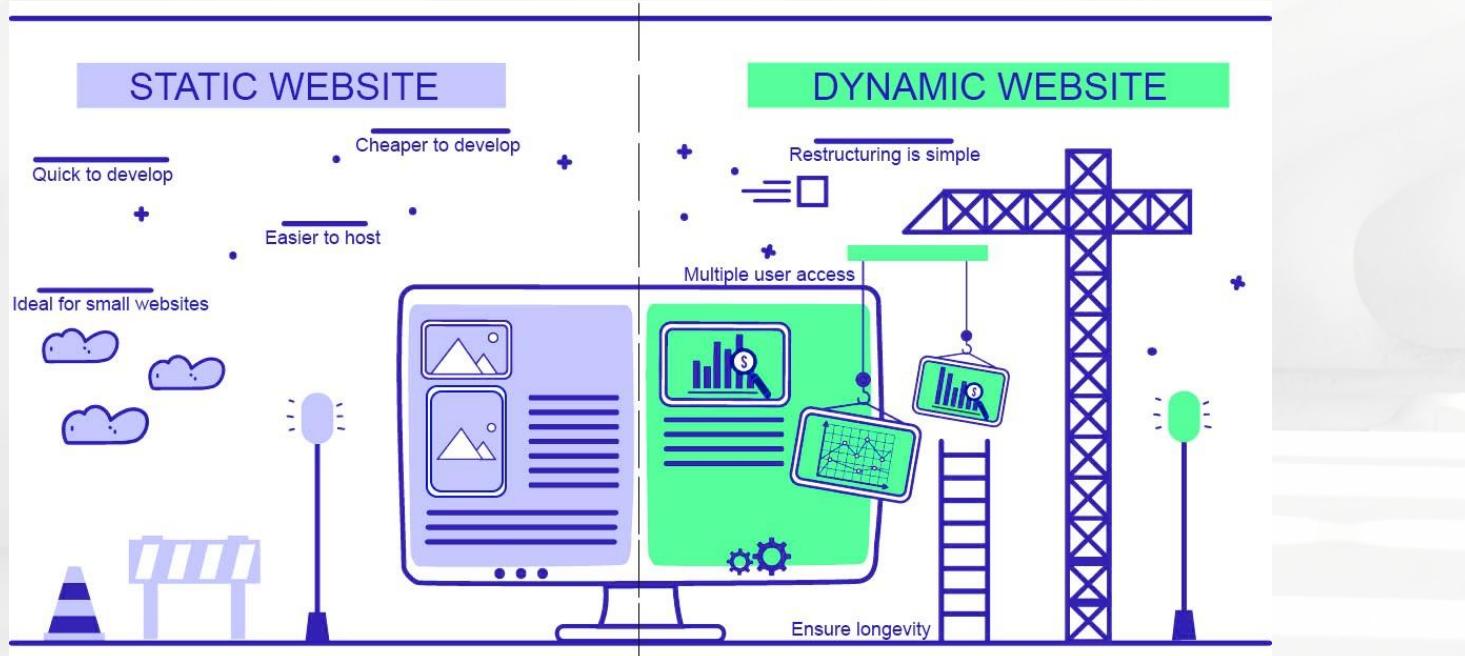


Host

Deploy

Domain

# Static website vs. dynamic website



Source: [medium](#)

# #Why and ?



*“Blogdown is the perfect tool to edit posts as part of your regular **R workflow**. It’s fast and easy.”*

*Me, a happy user*

*“Markdown means **simplicity** and **portability**: you will be able to convert your posts to PDFs, journal articles and even books.”*

*Yihui Xie et al.*

*“R Markdown creates **dynamics documents**: results, such as tables and graphics [can be] rendered dynamically from R code”*

*Yihui Xie et al.*



# Step 1 : Let's start! Are you ready?

#1. Get today's handout and be sure to have  
# blogdown installed

#2. Open blogdown and install hugo

```
#Open blogdown library
library(blogdown)
#Install hugo
blogdown::install_hugo()
```



## Step 2 : Choose your template

*# Option A : choose the default template*

```
#lithium  
blogdown::new_site()
```

*# Option B : choose a preselected template*

*# Specify the theme argument with the 'user/repo'  
# part of the corresponding GitHub link*

```
#ghostwriter  
blogdown::new_site(theme = 'jbub/ghostwriter')
```

# lithium(default)

A screenshot of the lithium theme homepage. At the top, there's a navigation bar with links for 'About', 'GitHub', and 'Twitter'. Below the header, there are two sections for '2016' and '2015'. Each section contains a post title, a date, and a snippet of the post content. At the bottom left, there are links for 'RSS feed' and 'Made with '. The main content area has a light gray background.

# academic

A screenshot of the academic theme homepage. It features a profile page for 'Lena Smith, Professor of Artificial Intelligence, Stanford University'. Below the profile, there are social media icons for Twitter, GitHub, and LinkedIn. To the right, there's a 'Biography' section with text about her research interests and education at Stanford University, MIT, and the Massachusetts Institute of Technology. Below the biography, there's a 'Recent Publications' section with a thumbnail image and a link to 'More Publications >'. The overall design is minimalist with white space.

# creative portfolio

A screenshot of the creative portfolio theme homepage. It shows a grid of seven portfolio items, each with a small image and a title: 'NAME OF THE WORK 2' and 'NAME OF THE WORK 3' (twice), and 'NAME OF THE WORK 7'. Each item has a brief description below it. The layout is clean with a white background and a mix of horizontal and vertical grid patterns.

# ghostwriter

A screenshot of the ghostwriter theme homepage. It features a blog post titled '(HUGO) TEMPLATE PRIMER' published on April 2, 2014. The post discusses the Hugo template engine. Below the post, there's a sidebar with links for 'HUGO TEMPLATE PRIMER', 'ABOUT HUGO', 'GETTING STARTED WITH HUGO', and 'TUTORIALS'. The sidebar also includes a 'Basic Syntax' section and a note about Go lang templates.

# tranquilpeak

A screenshot of the tranquilpeak theme homepage. It features a large image of a bridge over a river at sunset. Below the image, there's a heading 'Welcome to Tranquilpeak 0.2.0' with a release date of June 15, 2015. To the left, there's a sidebar with links for 'Home', 'Categories', 'Stack Overflow', 'Tags', 'Archives', 'About', and 'RSS'. The main content area has a light gray background.

# castanet

A screenshot of the castanet theme homepage. It features a video player with the latest episode titled 'Back to School'. Below the video, there's a heading 'Elements showcase' with a link to May 28, 2015. Further down, there's another heading 'Cover image showcase' with a link to May 13, 2015. On the right side, there's a 'SUBSCRIBE' section with links for 'iTunes', 'Android', 'Google Play Music', and 'Subscribe via RSS'. At the bottom, there's a 'JOIN OUR MAILING' section.

## Step 2 : Choose your template

*#Option C: choose your favorite template on the Hugo gallery*

*# Find the corresponding GitHub link by clicking on the download button*

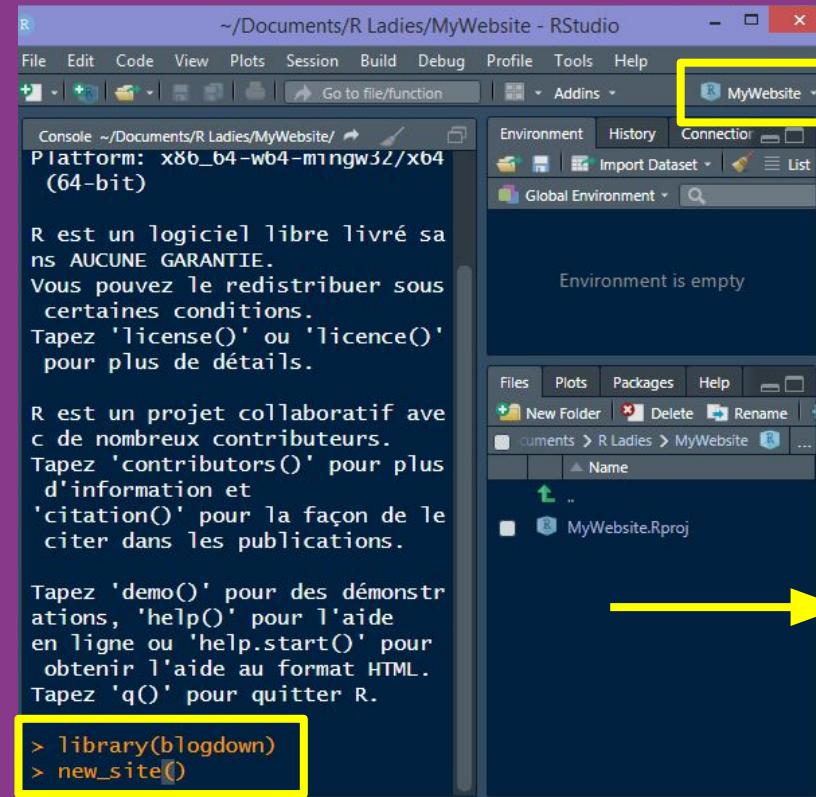


Hugo is really powerful. Be cautious with power:

*“the **more effort** you make in a complicated theme, the **more difficult** it is to switch to other themes in the future”*

Yihui Xie et al.

# Step 3 : Download your template



The screenshot shows the RStudio interface with the following details:

- Title Bar:** ~/Documents/R Ladies/MyWebsite - RStudio
- Addins Menu:** A dropdown menu labeled "MyWebsite" is highlighted with a yellow box.
- Console:** Displays the R startup message and the command: > library(blogdown)  
> new\_site()
- Environment:** Shows "Environment is empty".
- File Explorer:** Shows the directory structure: ~/Documents/R Ladies/MyWebsite. A file named "MyWebsite.Rproj" is visible.

*#3. Execute the  
'new\_site()'  
function in the  
console with the  
theme of your  
choice as an  
argument*



*#1. Create a  
new project*

*#2. Directory  
must be empty*



# Let the magic happen!



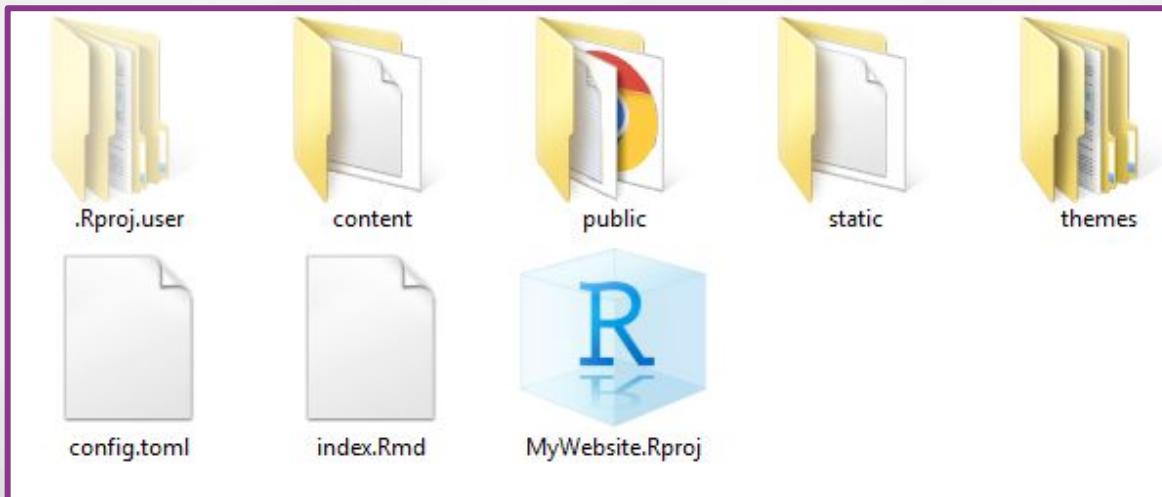
*Unrelated Hadley Wickham meme*

# #Quick overview of the files and folders created

Write your posts  
in /content/

/public/ is the  
publishing directory

/static/ contains  
images, HTML files, etc



Config.toml :  
global settings

.Rproj & .Rprofile  
files

/theme/ contains  
template files

# #Quick overview of functions and addins

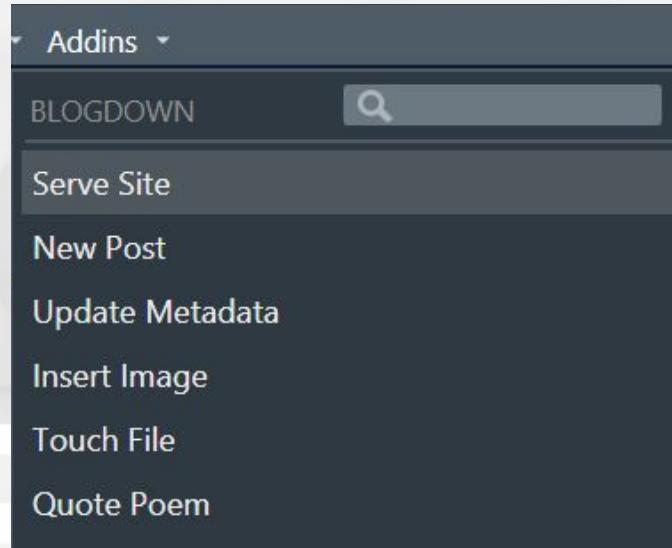


*#To code...*

*#Preview your website*  
`blogdown::serve_site()`

*#Create a new post*  
`blogdown::new_post(  
 title = 'my new post')`

*or not to code?*



# Step 4 : Set global options

## #1. Create a startup profile file

```
#Option A: create a per-project file  
file.edit('.Rprofile')  
  
#Option B: create a general file  
file.edit('~/ .Rprofile')
```

console

## #2. Set Rmarkdown extension and the author's

```
# name
```

```
#Profile: extension and author name  
options ( blogdown.ext = '.Rmd' ,  
          blogdown.author = 'Author Name' )
```

.Rprofile

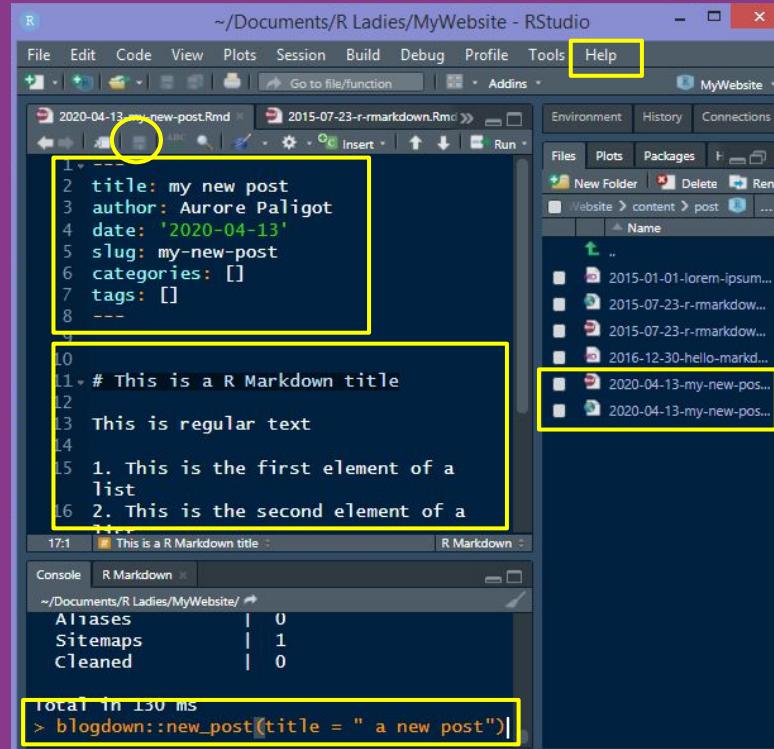
# Step 5 : Create your first post with syntax



*YAML metadata  
can be modified  
with the addin*

*2. Start  
writing with R  
markdown*

*1. Create a new  
post with the  
function  
`new_post()` or  
the addin*



The screenshot shows the RStudio interface with the following elements highlighted:

- File menu:** Help (highlighted)
- Code editor:** A file named "2020-04-13-my-new-post.Rmd" containing YAML metadata and R Markdown code.
- YAML metadata:** title: my new post, author: Aurore Paligot, date: '2020-04-13', slug: my-new-post, categories: [], tags: []
- R Markdown code:** # This is a R Markdown title, followed by regular text and a list.
- File browser:** Shows files in the "Website > content > post" directory, including "2015-01-01-lorem-ipsum...", "2015-07-23-r-markdown...", "2015-07-23-r-markdown...", "2016-12-30-hello-markd...", "2020-04-13-my-new-pos...", and "2020-04-13-my-new-pos...".
- Console:** Shows the command `blogdown::new_post(title = " a new post")` and its execution time.

*3. Save your  
progress*

*Your .Rmd file and  
its HTML version  
are stored under  
`/content/post/`*

*4. Preview your  
website with the  
`serve_site()`  
function or with  
the addin*



# Step 5 : Create your first post with syntax\*

```
## Create a post with
- a header
- a list
- **bold** or *italic* text
- a link
```

```
## And/Or
1. a r code (formula)
2. a r code (result)
3. a graph
```

## Create a post with

- a header
- a list
- **bold** or *italic* text
- a link

## And/Or

1. a r code (printed)
2. a r code (not printed)
3. a graph

```
y <- 5+2
```

```
y
```

```
## [1] 7
```

## Step 5 : Explore other options

# The Insert image addin stores your image  
# in the right /static folder

# Add tags and categories to your posts with  
# the update metadata addin

# Hide a post by changing its extension  
# ex.from .Rmd to .Rmkd



# # Step 6: Update the config.toml file

```
baseurl = "/"
languageCode = "en-us"
title = "A Hugo website" ←
theme = "hugo-lithium"
googleAnalytics = ""
disqusShortname = ""
ignoreFiles = ["\".Rmd\"", "\".Rmarkdown\"", "_files\"", "_cache\""]

[permalinks]
  post = "/:year/:month/:day/:slug/" ←

[[menu.main]]
  name = "About"
  url = "/about/"
[[menu.main]]
  name = "GitHub"
  url = "https://github.com/rstudio/blogdown" ←
[[menu.main]]
  name = "Twitter"
  url = "https://twitter.com/rstudio" ←
[params]
  description = "A website built through Hugo and blogdown."
```

*#Change the title and  
the description of your  
website*

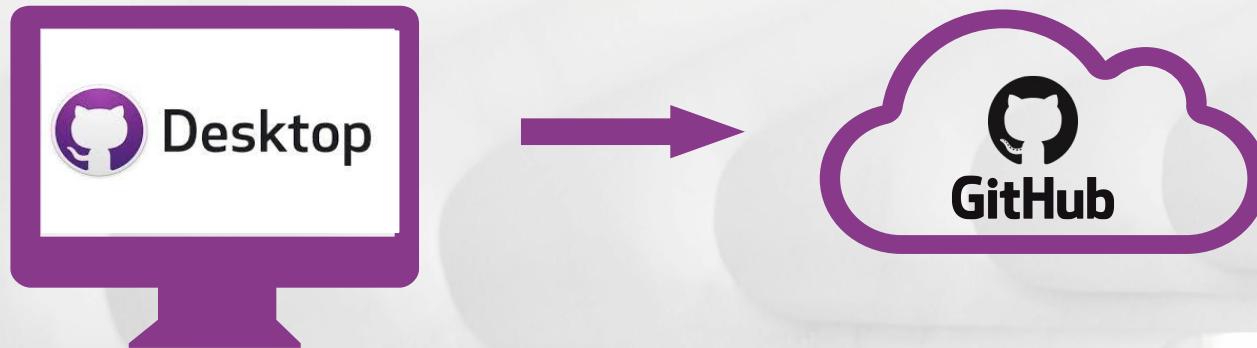
*#Change the urls of your  
Social Media accounts*

*#Add a new Social Media  
section*

*#Hide a section*

*#Change the website logo*

# Step 7: Host your website on GitHub



Use your favorite method to push your project on GitHub

# Step 8: Deploy your website with netlify

Sign up with your GitHub account

Pick your website repository

Check options and deploy

Sign up with one of the following:

 GitHub

 GitLab

 Bitbucket

Email



aurorepaligot ✓



aurorepaligot/Aboreal



aurorepaligot/MyWebsite

Can't see your repo here? [Configure the Net](#)

Owner  
Aurore Paligot's team

Branch to deploy  
master

Basic build settings

If you're using a static site generator or build tool, we'll need these se

[Learn more in the docs](#)

Build command

`hugo`

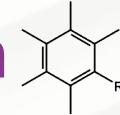
Publish directory

`public`

**“Continuous Deployment:** Choose the repository you want to link to your site on Netlify. When you push to Git, we run your build tool of choice on our servers and deploy the result.” Netlify



# Step 9: Customize your domain name with



Fill an issue on  
rbind/support

Wait for an answer

Add rbind subdomain  
in your Netlify account

[REDACTED] commented 19 hours ago • edited

Netlify website address

[https://\[REDACTED\].netlify.com/](https://[REDACTED].netlify.com/)

Preferred rbind.io subdomain

[REDACTED]rbind.io

Agreement

By submitting this request, I promise I will at [REDACTED]



Domains ?

Use your own domain for your Netlify site for free

Custom domains

By default, your site is always accessible via a Netlify subdomain. Custom domains allow you to access your site via one or more no

- [\[REDACTED\].netlify.com](#)  
Default subdomain

Learn more about custom domains in the docs →

Add custom domain 

*"The goal of the Rbind project is to provide a service like WordPress.com or Medium, but **driven by the community** instead of a certain company. We hope users can help each other to build the websites they want." Rbind*



# Step 10: Update the url of your website

*# 1. Update the base url of your config.toml file*

```
baseurl = "https://mywebsite.rbind.io/"
```

*# 2. Create a \_redirects file under the /static/  
# folder and redirect your default Netlify and  
# http subdomains to your primary domain*

```
http://random.netlify.com/* https://mywebsite.rbind.io/:splat 301!
```

```
http://mywebsite.rbind.io/* https://mywebsite.rbind.io/:splat 301!
```



# References and links

Yihui Xie, Amber Thomas, and Alison Presmanes Hill. [Blogdown: Creating Websites with R Markdown](#). Last updated on 2020-04-03. Last consulted on 2020-04-14

Yihui Xie, [301 Redirect: The Most Important Technique in Maintaining Websites](#). Last updated on 2017-11-19. Last consulted on 2020-04-14

[Rbind Support](#), about section. Last consulted on 2020-04-14

[GitHub of Rbind support](#). [Open issue to request a .rbind.io subdomain]

L.Collado-Torres. [Blogdown Insert Image addin](#). Last updated on 2020-02-12. Last consulted on 2020-04-14



# THANK YOU

Do you have questions about this workshop? Don't hesitate to contact [me](#)!

What is your feedback? Please, let us know.



# BREAK