

# A simple way to create a website with Blogdown

R à Québec Workshop

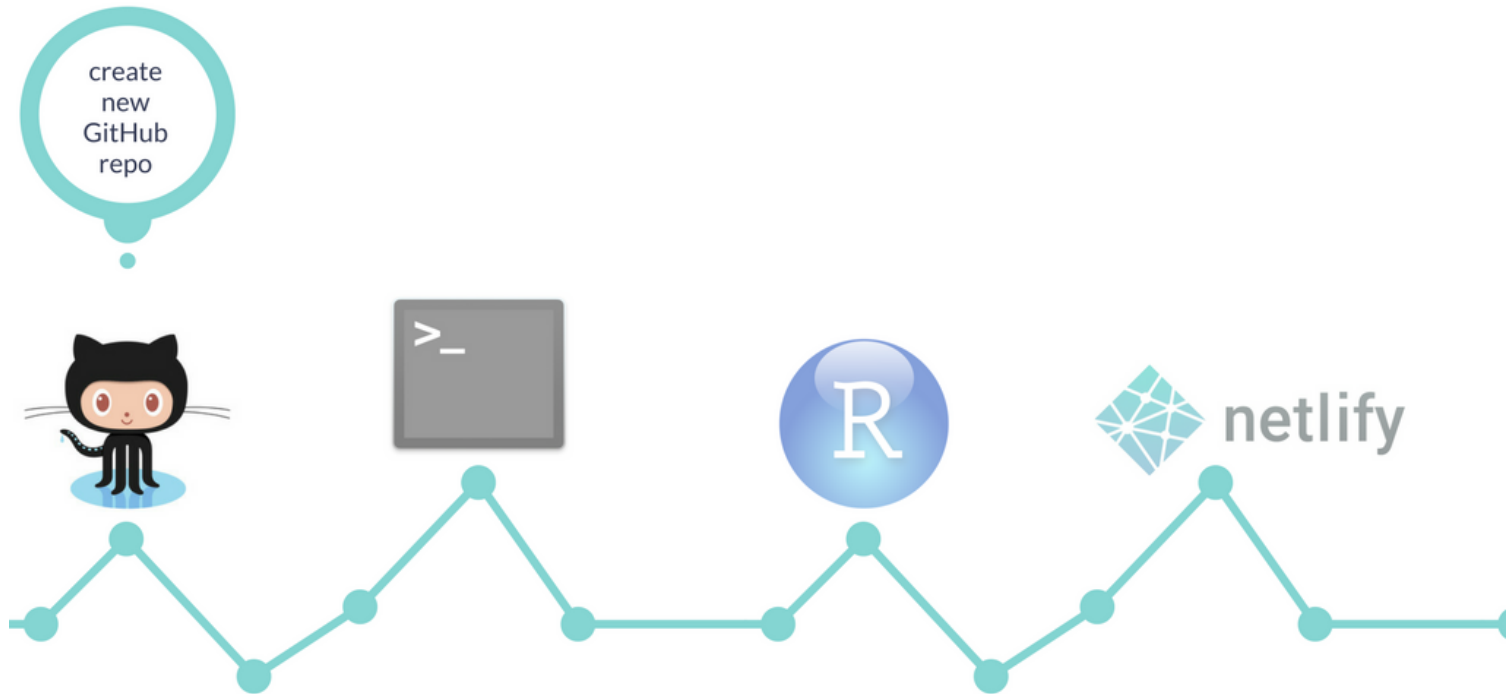
Mamadou Yauck & Sergio Ewane Ebouele

2019-05-13

# Étapes de la présentation

- Créer un compte [GitHub](#);
- Établir la *communication* entre une session [Rstudio](#) et un répertoire [GitHub](#);
- Transférer les documents d'un projet [RStudio](#) dans un répertoire [GitHub](#);
- Créer un projet [BlogDown](#) avec [RStudio](#) et le *connecter* à un répertoire [GitHub](#);
- Charger un *thème* de la plateforme [HUGO](#) avec [Blogdown](#);
- Créer un compte sur [Netlify](#);
- Établir le *lien* entre un compte [GitHub](#) et un compte [Netlify](#);
- Déployer un site web développé sous [RStudio](#) à partir d'un répertoire [GitHub](#).

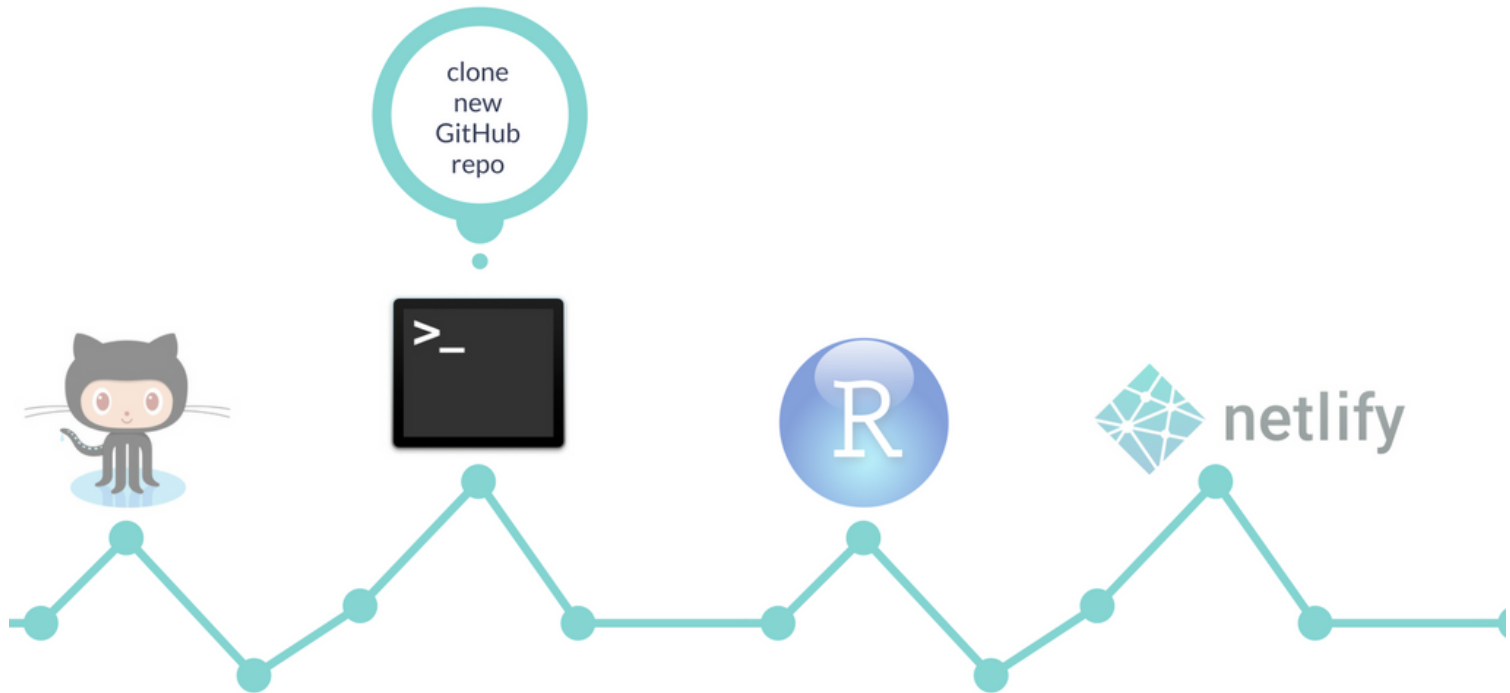
# GitHub



# Create a GitHub repository

1. Open your **GitHub** account and create a new repository (initialize with a **README** but don't add **.gitignore** for now).
2. Go to the main page of the repository, and under the repository name, click the **Clone or download** button.
3. In the **Clone with HTTPs** section, click on the clipboard icon to copy the clone URL for the new repository (we will paste this text into the terminal in the next section.)

# Command line/Terminal



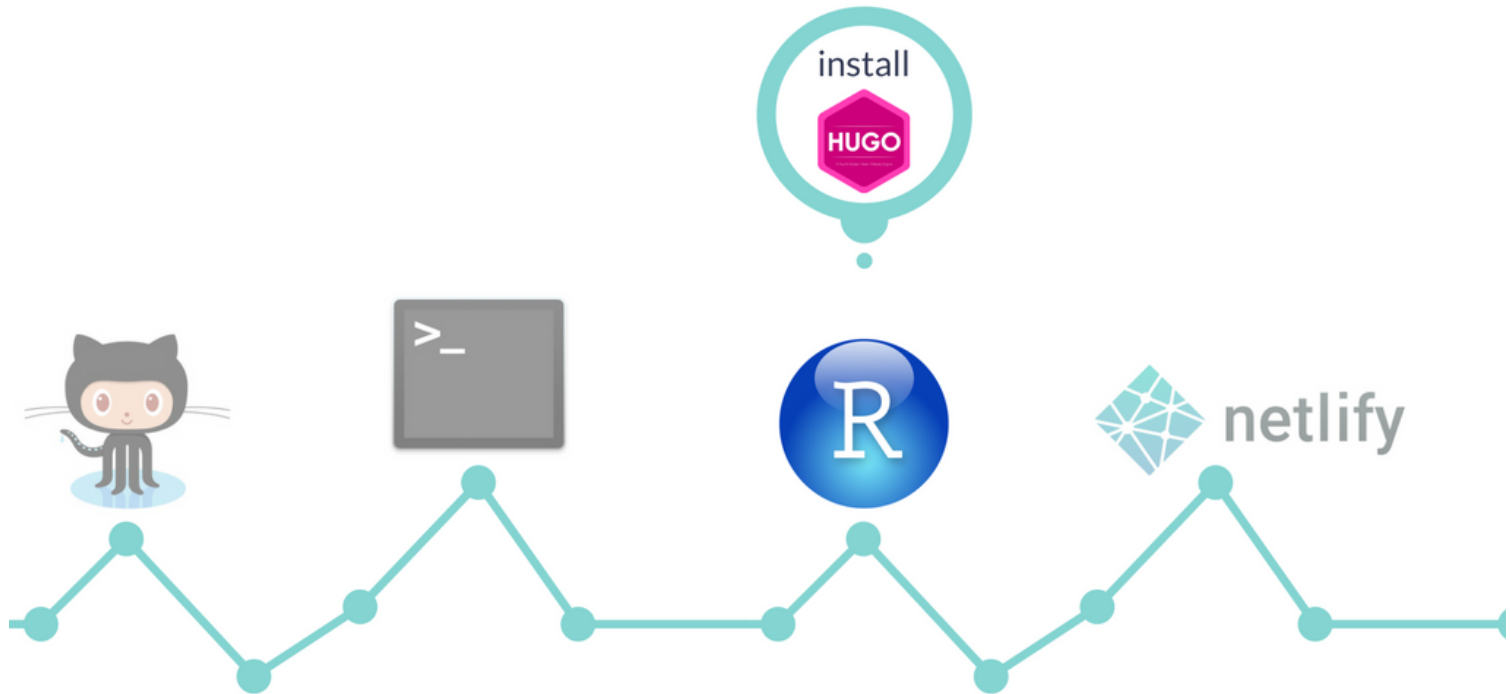
# Clone the GitHub repository

We are going to create a local copy of the repository on your computer so you can make the two locations communicate (using the command line tool for Windows or the Terminal for Mac OS X).

1. Use `cd` to indicate the directory where you want your repository to be located
2. Type: `git clone [paste]`.
3. Close the command line/terminal.

For more details, see [clone your remote repository](#).

# RStudio



# What is Blogdown ?



**= blogdown**



# Blogdown and Hugo

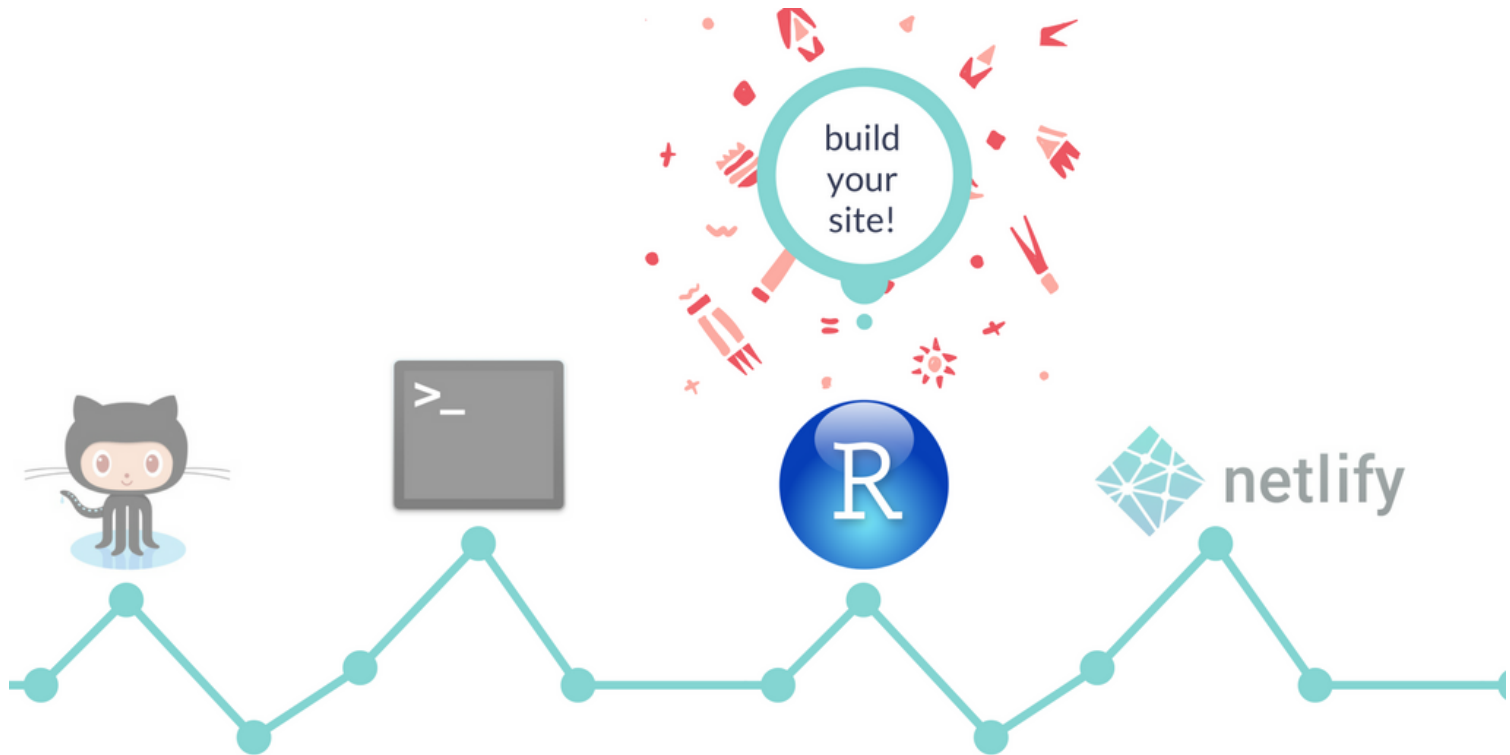
- Install the package `blogdown` from RStudio or use `install.packages("devtools")`  
`devtools::install_github("rstudio/blogdown")`
- Install Hugo:

```
blogdown::install_hugo()  
library(blogdown)  
install_hugo()
```

- Use the **File** button in RStudio to select **File -> New Project -> Existing Directory**, then browse to the directory on your computer where your GitHub repository is and click on **Create Project**.
- Edit the `*gitignore` file. If you want to use Netlify to deploy your website, you should add the `public/` line ([for more info.](#))

```
.Rproj.user  
.Rhistory  
.RData  
.Ruserdata  
blogdown  
.DS_Store # Thumbs.db for Windows users  
public/ # for Netlify
```

# Build your site



# Choose a theme !

To choose a theme, see [Hugo themes](#). To save time, see [Bookdown suggested themes](#).

- You can use the default `lithium` theme:

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

- If you choose a theme, you can specify it while calling the `new_site` function. If you choose the `academic` theme:

```
blogdown::new_site(theme = "gcushen/hugo-academic", theme_example = TRUE)
```

- If you want to add a theme later:

```
library(blogdown)
new_site() # default theme
install_theme("gcushen/hugo-academic", theme_example = TRUE, update_config = TRUE)
```

# Some basic edits

- Update project options by doing **Tools -> Project Options** and following **Bookdown instructions**.
- Edit the `baseUrl` in your `config.toml` file. The URL *should always* end with a `/`:

```
baseUrl = "https://website.com/"  
baseUrl = "/"
```

Feel free to edit other elements of the `config.toml` file ! For more details on configuration settings, read **Bookdown chapter on configuration**.

- To view your new site locally, use the **Serve Site** button, or run `blogdown::serve_site`

Explore your new site

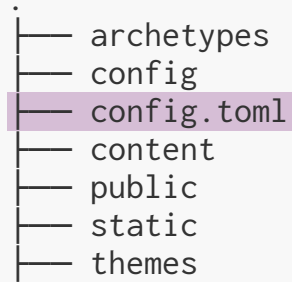
# Hugo directory structure

```
.
├── archetypes
├── config
├── config.toml
├── content
├── public
├── static
└── themes
```

# Hugo directory structure

```
.
├── archetypes
├── config
├── config.toml
├── content
├── public
├── static
└── themes
```

# Hugo directory structure



```
graph LR; root["."] --- archetypes; root --- config; root --- config_toml["config.toml"]; root --- content; root --- public; root --- static; root --- themes;
```

The diagram illustrates the Hugo directory structure. It shows a root directory with several subdirectories and files. The 'config.toml' file is highlighted with a purple bar.

- archetypes
- config
- config.toml
- content
- public
- static
- themes



# Hugo directory structure

```
.
├── archetypes
├── config
├── config.toml
├── content
│   ├── author
│   ├── home
│   └── post
├── public
├── static
└── themes
```

# Hugo directory structure

```
.
├── archetypes
├── config
├── config.toml
├── content
├── public
├── static
│   └── img
└── themes
```

# Serve your site (locally)

- Console

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

- [The RStudio Addin Serve Site](#)

# Edit your new site

For more details, see Academic's page builder

Edit your new site

Edit your home page

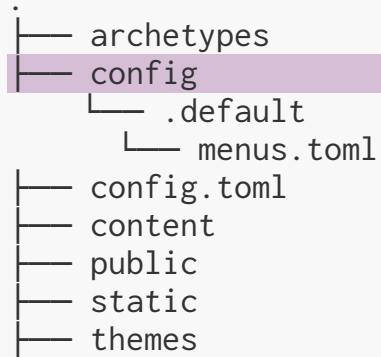
# Change your bio

```
.
├── archetypes
├── config
├── config.toml
├── content
│   ├── author
│   │   └── admin
│   │       └── index.md
├── public
├── static
└── themes
```

# Update your CV

```
.
├── archetypes
├── config
├── config.toml
├── content
│   ├── home
│   │   ├── accomplishments.md
│   │   ├── experience.md
│   │   ├── skills.md
│   │   └── ...
├── public
├── static
└── themes
```

# Edit the navigation bar



```
.
├── archetypes
├── config
│   ├── .default
│   └── menus.toml
├── config.toml
├── content
├── public
├── static
└── themes
```

A directory tree structure is shown. The 'config' directory is highlighted with a purple bar. The tree includes a root directory with subdirectories: archetypes, config, config.toml, content, public, static, and themes. The 'config' directory contains subfiles: .default and menus.toml.



Create a new post

# New post

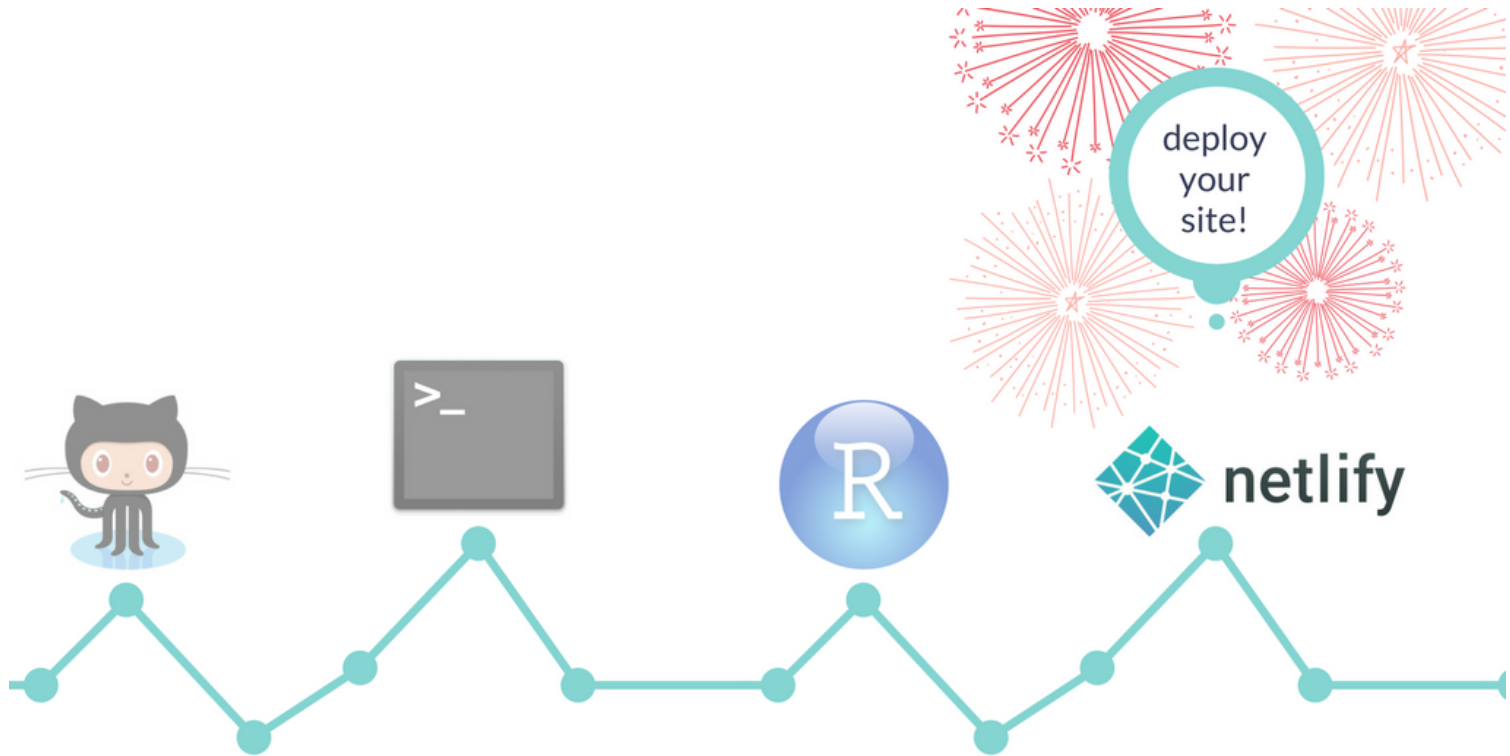
- Console

```
blogdown::new_post()
```

- From the R menu: Addins -> New Post

# Deploy your new site

# Deploy your site in Netlify



# Steps to deploy your site

- **Commit** your changes and **push** to **GitHub**.
- Go to **Netlify** and **Sign Up** using your **GitHub** account.
- Log in and click on: **New site from Git -> Continuous Deployment: GitHub**.
- Select the **GitHub** repository already in use with **blogdown**, then specify the **build** command and the **publish directory** (to **public**).
- Your website is now deployed ! Netlify will assign you a subdomain name of the form **somethingbizarre.netlify.com**. You can change the subdomain name, for example to **mamadouyauck.netlify.com**.

When you change your subdomain name, you must update the **baseurl** in your **config.toml** file, for example to **baseurl = "https://mamadouyauck.netlify.com/"**.

For more details, see **Bookdown deployment instructions**, or **deploy with Netlify through GitHub**.

# Reference

Alison Hill's Up and running with Blogdown

# Contact me

Personal website  
GitHub repository  
Twitter page