Building a Portfolio Website

OCRUG + MAC

Github repo: https://bit.ly/2U9idNY

Agenda

Tutorial ~ 1.5 Hour

Questions ~ 30 mins

What this is and what this is not

This workshop will give you the tools for a simple, customizable website

Not a deep dive into:

- R
- Git
- Github
- Websites
- Data Science projects

Motivation

Why have a portfolio website?
One way to build trust with others is to prove you can do the work. In data science, you can show that work by building a portfolio of projects.

What to include in your website? (Some ideas)
School, Hackathon, workshop, competition projects
Code is available and well-documented.
Compelling story

AwesomeBlogdown is a collection of websites built with Blogdown

Why Hugo, Github, Blogdown, Netlify?

- It's **free**
- **Simple editing**. Instead of using HTML to write your content, you can write using popular Markdown and LaTeX math expressions.
- **Multiplatform.** Build your site on the cloud or locally on a Mac, Linux, or Windows computer.
- **Lightning fast to generate.** Hugo builds the site, piecing together all the various parts and converting the content to HTML in less than a second
- **Lightning fast to access.** The inherent advantage of using a static site generator is that each page and asset can immediately be served to the client without any dynamic processing.

From Hugo Academic Website

Workflow

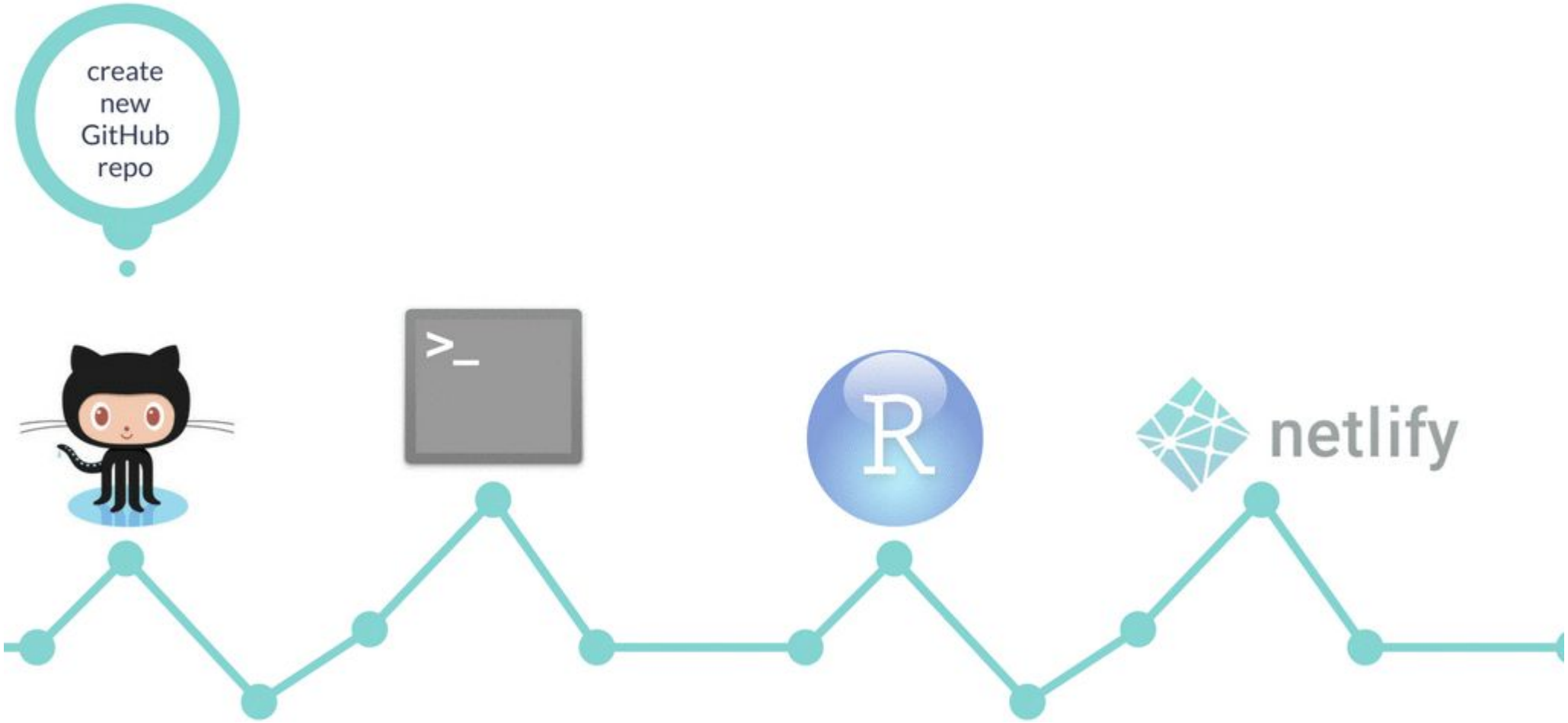


Image from Allison HIll

Set up

- Git https://git-scm.com/
- RStudio
- GitHub Account https://github.com/

Steps

- GitHub
  - Create new Repository
  - Copy/clone url
- R Studio:
  - Install blogdown: install.packages(“blogdown”)
  - blogdown::install_hugo()
  - Create new “R Project” -> New Directory -> “Website using blogdown” -> Hugo Theme: Default (can be changed)
  - Serve Site
  - Modify “config.toml” file
  - Addins -> New Post
  - Add, commit and push changes
- Netlify
  - Connect to GitHub and serve site
  - Change domain

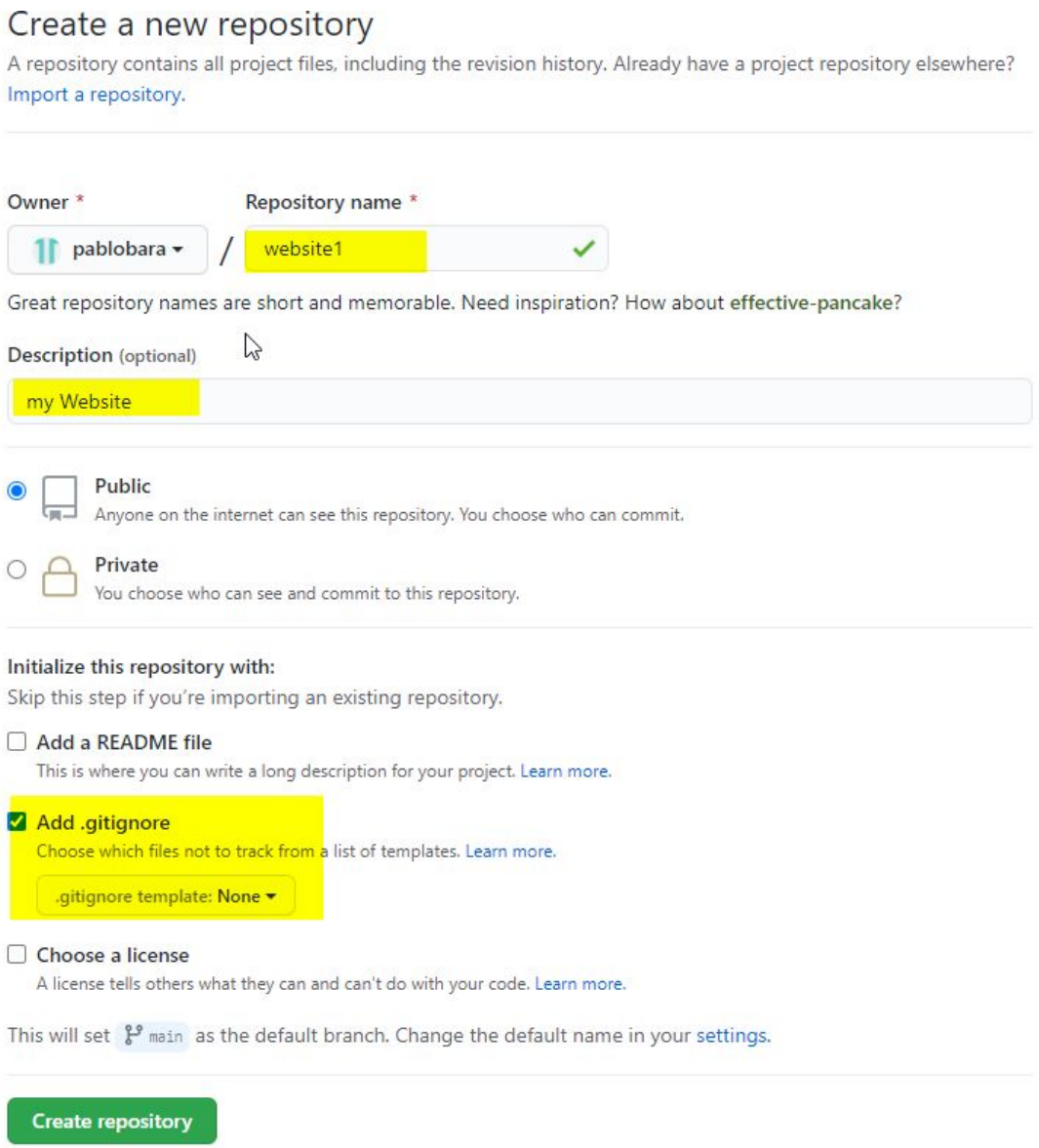
Git

- Need to configure git for first time users

```
$ git config --global user.name "John Doe"
$ git config --global user.email johndoe@example.com
```

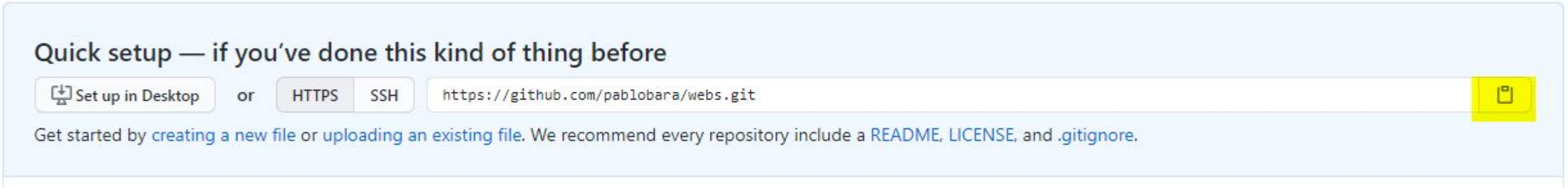
Github

- Create a new repository



Github

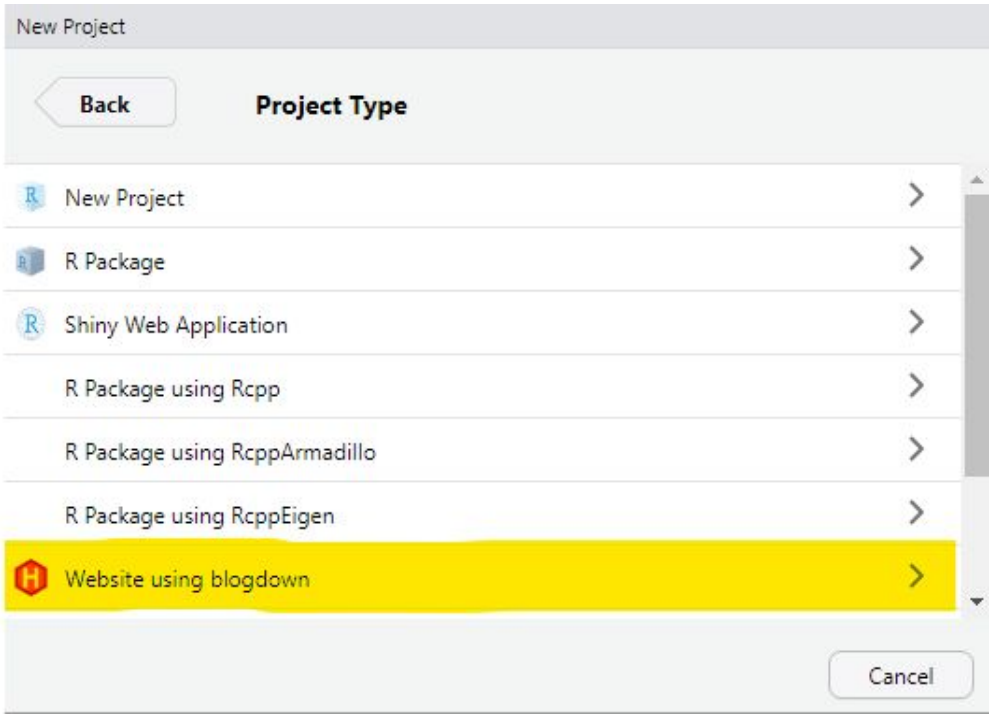
We will create a local copy of this repository.

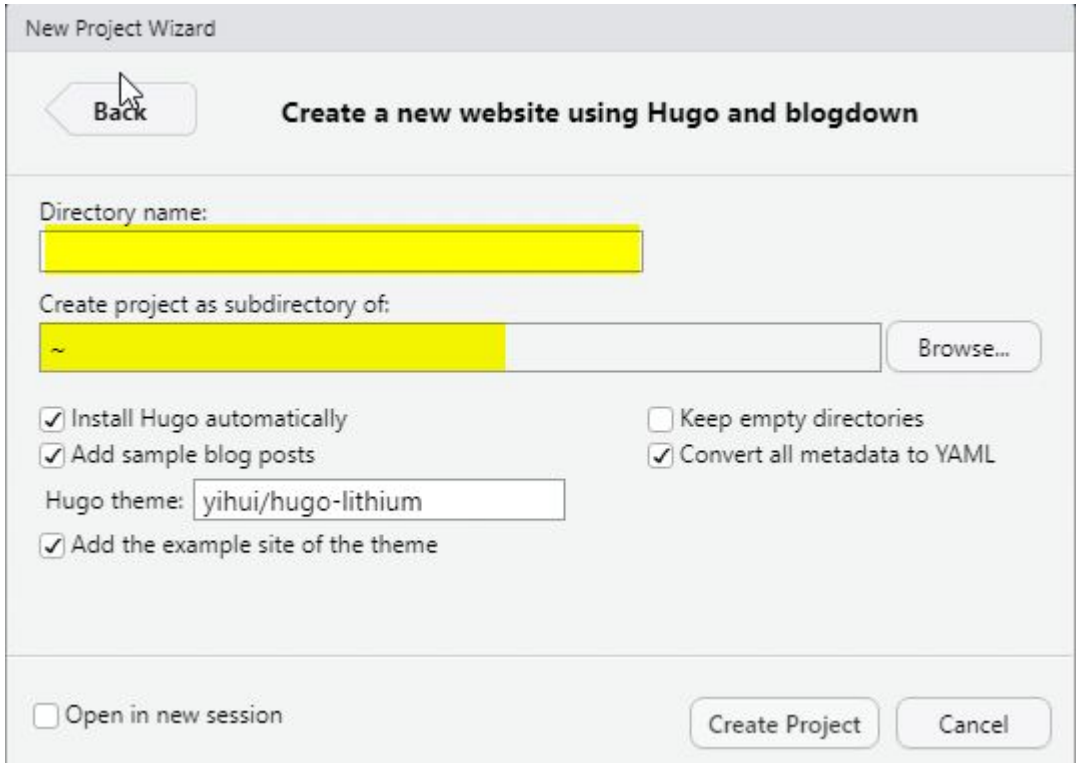


RStudio

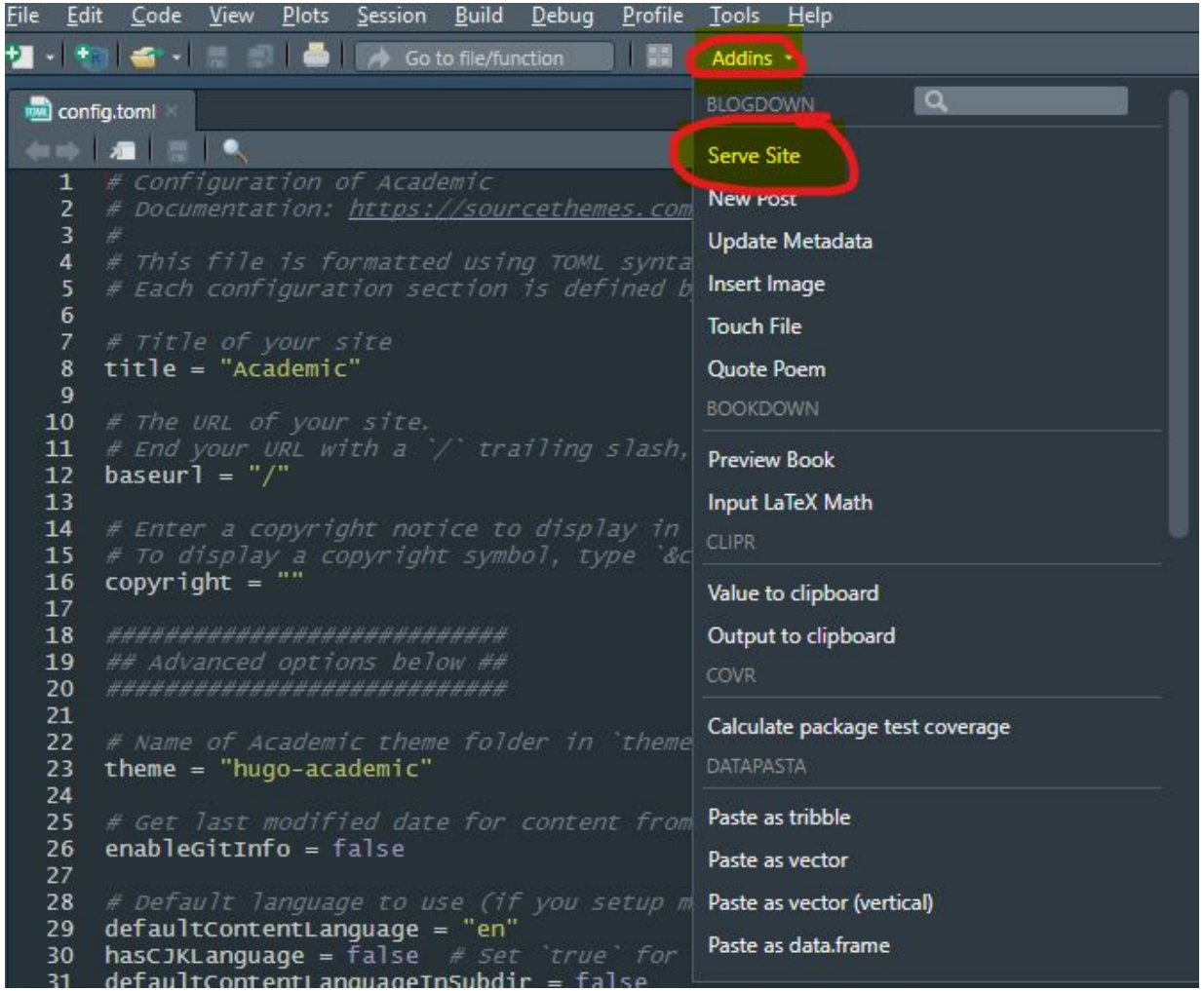
- Install blogdown: install.packages("blogdown")
- blogdown::install_hugo()

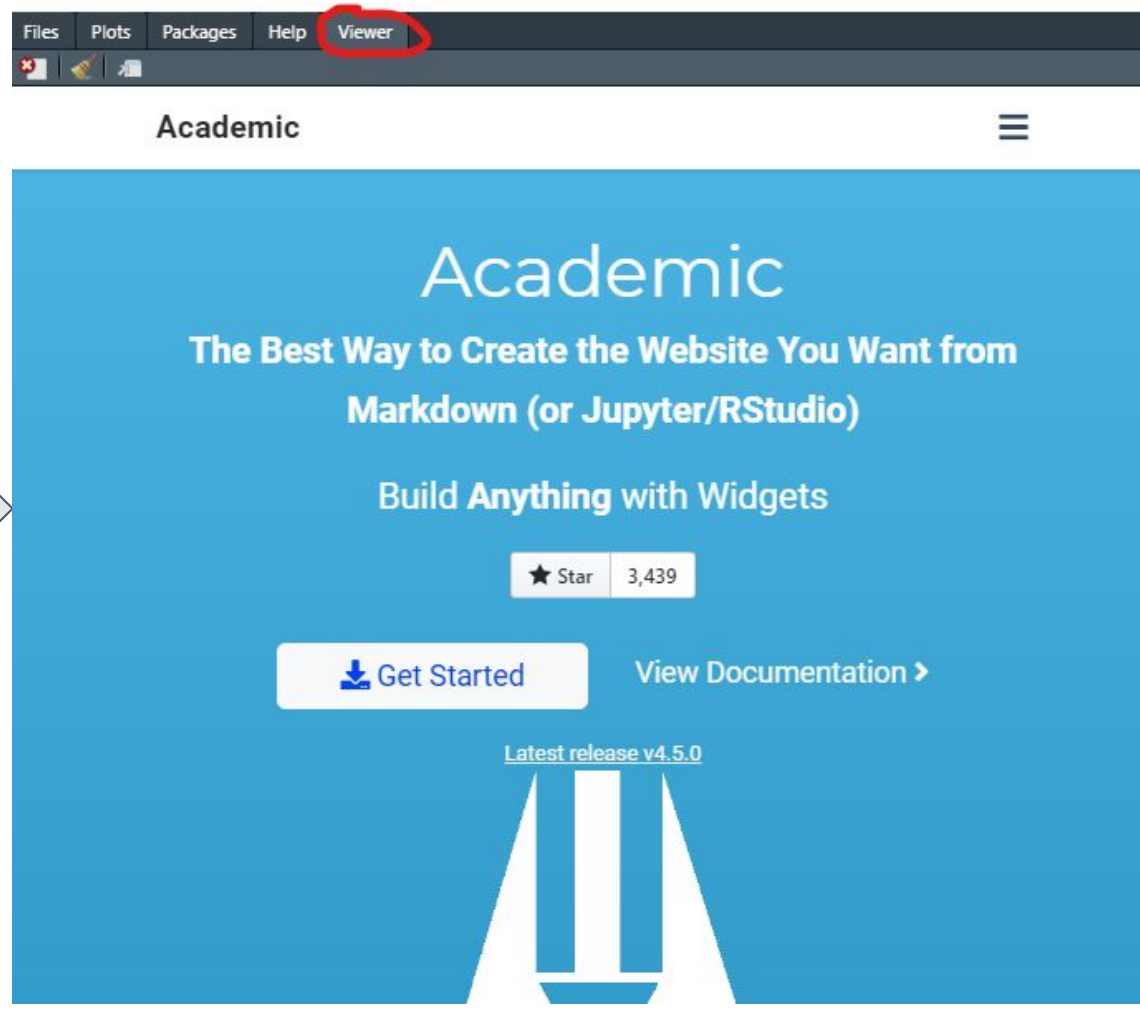
File -> New Project -> New Directory -> Website Using Blogdown





RStudio


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
config.toml
BLOGDOWN
Serve Site
New Post
Update Metadata
Insert Image
Touch File
Quote Poem
BOOKDOWN
Preview Book
Input LaTeX Math
CLIPR
Value to clipboard
Output to clipboard
COVR
Calculate package test coverage
DATAPASTA
Paste as tribble
Paste as vector
Paste as vector (vertical)
Paste as data.frame
# Configuration of Academic
# Documentation: https://sourcethemes.com
# This file is formatted using TOML syntax
# Each configuration section is defined by
# Title of your site
title = "Academic"
# The URL of your site.
# End your URL with a `/` trailing slash,
baseurl = "/"
# Enter a copyright notice to display in
# To display a copyright symbol, type `&c
copyright = ""
Advanced options below
# Name of Academic theme folder in `theme
theme = "hugo-academic"
# Get last modified date for content from
enableGitInfo = false
# Default language to use (if you setup m
defaultContentLanguage = "en"
hasCJKLanguage = false # Set `true` for


Files Plots Packages Help Viewer
Academic
Academic
The Best Way to Create the Website You Want from Markdown (or Jupyter/RStudio)
Build Anything with Widgets
Star 3,439
Get Started
View Documentation
Latest release v4.5.0

Git Terminal

Tools -> New Terminal

Move to the folder where you saved the R Project:

cd *Your Path*

Write the following:

echo "# test" >> README.md

git init

git add .

git commit -m "first commit"

git branch -M main

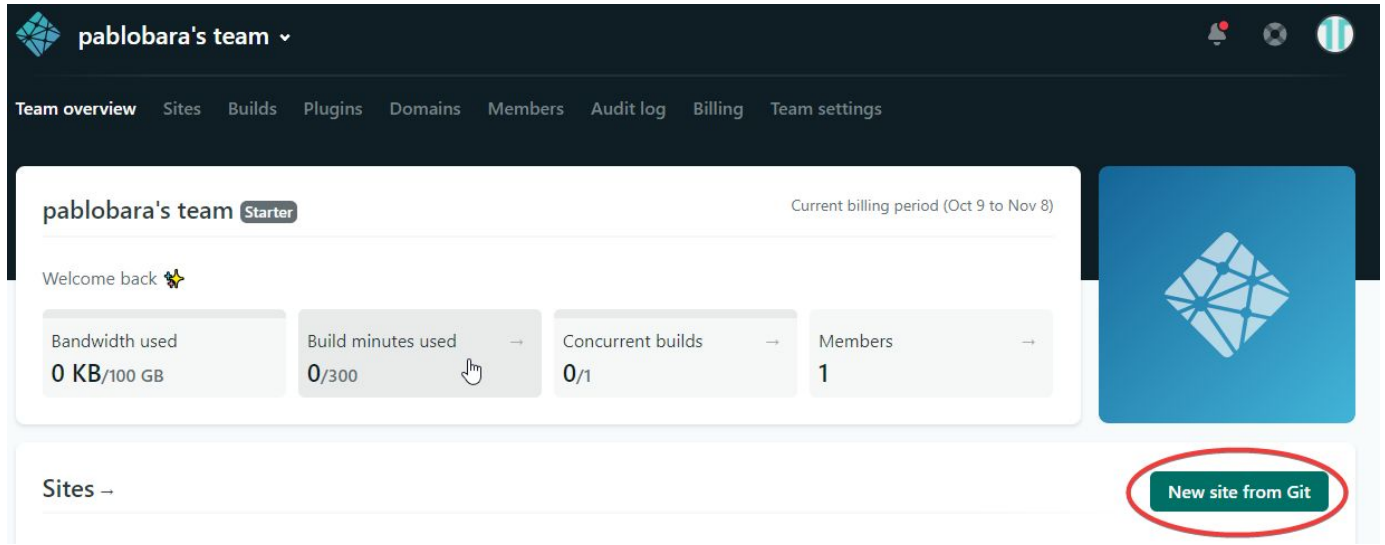
git remote add origin ## (link from Github repository)

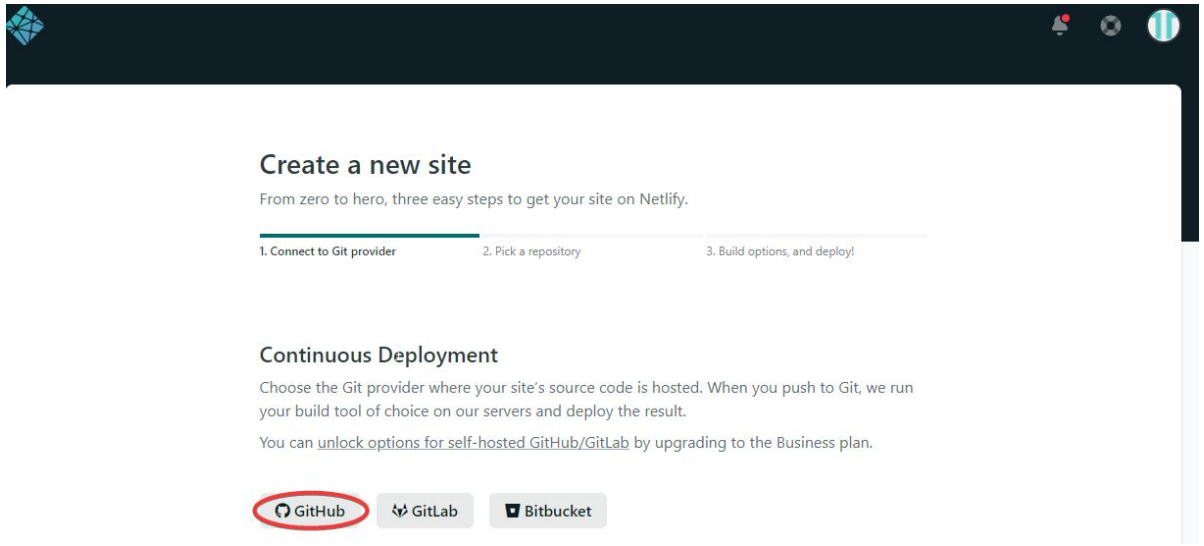
git push -u origin main

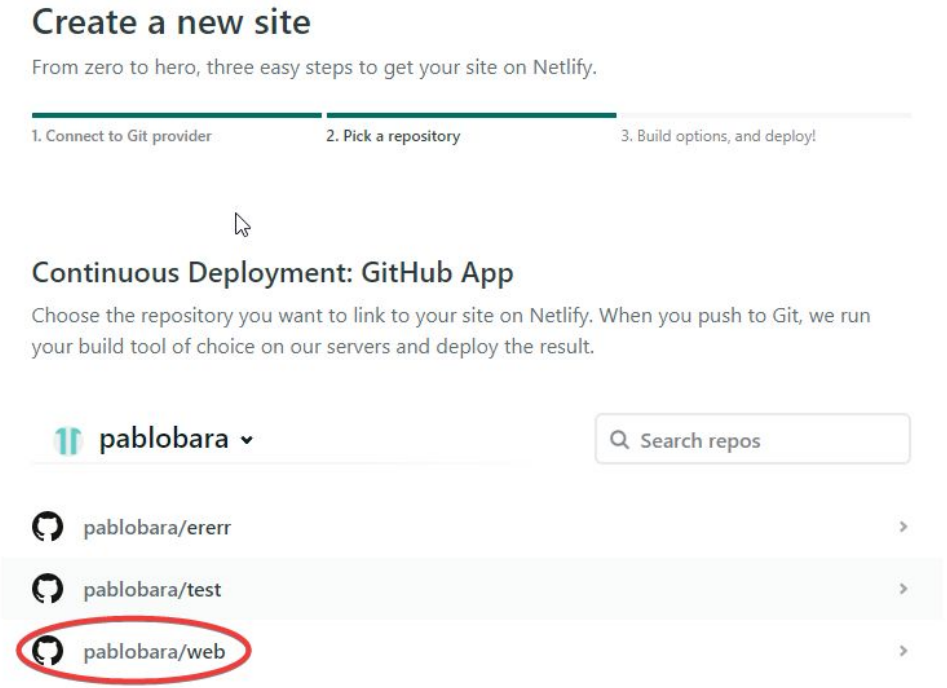
Netlify

Go to: https://www.netlify.com/

- Login with your GitHub account
- New site from Git
- Select your website repo
- Deploy the site


pablobara's team
Team overview
Sites
Builds
Plugins
Domains
Members
Audit log
Billing
Team settings
pablobara's team
Starter
Current billing period (Oct 9 to Nov 8)
Welcome back
Bandwidth used
0 KB/100 GB
Build minutes used
0/300
Concurrent builds
0/1
Members
1
Sites
New site from Git


Create a new site
From zero to hero, three easy steps to get your site on Netlify.
1. Connect to Git provider
2. Pick a repository
3. Build options, and deploy!
Continuous Deployment
Choose the Git provider where your site's source code is hosted. When you push to Git, we run your build tool of choice on our servers and deploy the result.
You can unlock options for self-hosted GitHub/GitLab by upgrading to the Business plan.
GitHub
GitLab
Bitbucket


Create a new site
From zero to hero, three easy steps to get your site on Netlify.
1. Connect to Git provider
2. Pick a repository
3. Build options, and deploy!
Continuous Deployment: GitHub App
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.
pablobara
Search repos
pablobara/ererr
pablobara/test
pablobara/web

Create a new site

From zero to hero, three easy steps to get your site on Netlify.

1. Connect to Git provider
2. Pick a repository
3. Build options, and deploy!

Continuous Deployment: GitHub App

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.

pablobara

Search repos

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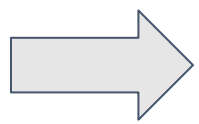
- pablobara/web



Deploy settings for pablobara/erer

Get more control over how Netlify builds and deploys your site with these settings.

Owner

pablobara's team

Branch to deploy

main

Basic build settings

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

Learn more in the docs ↗

Build command

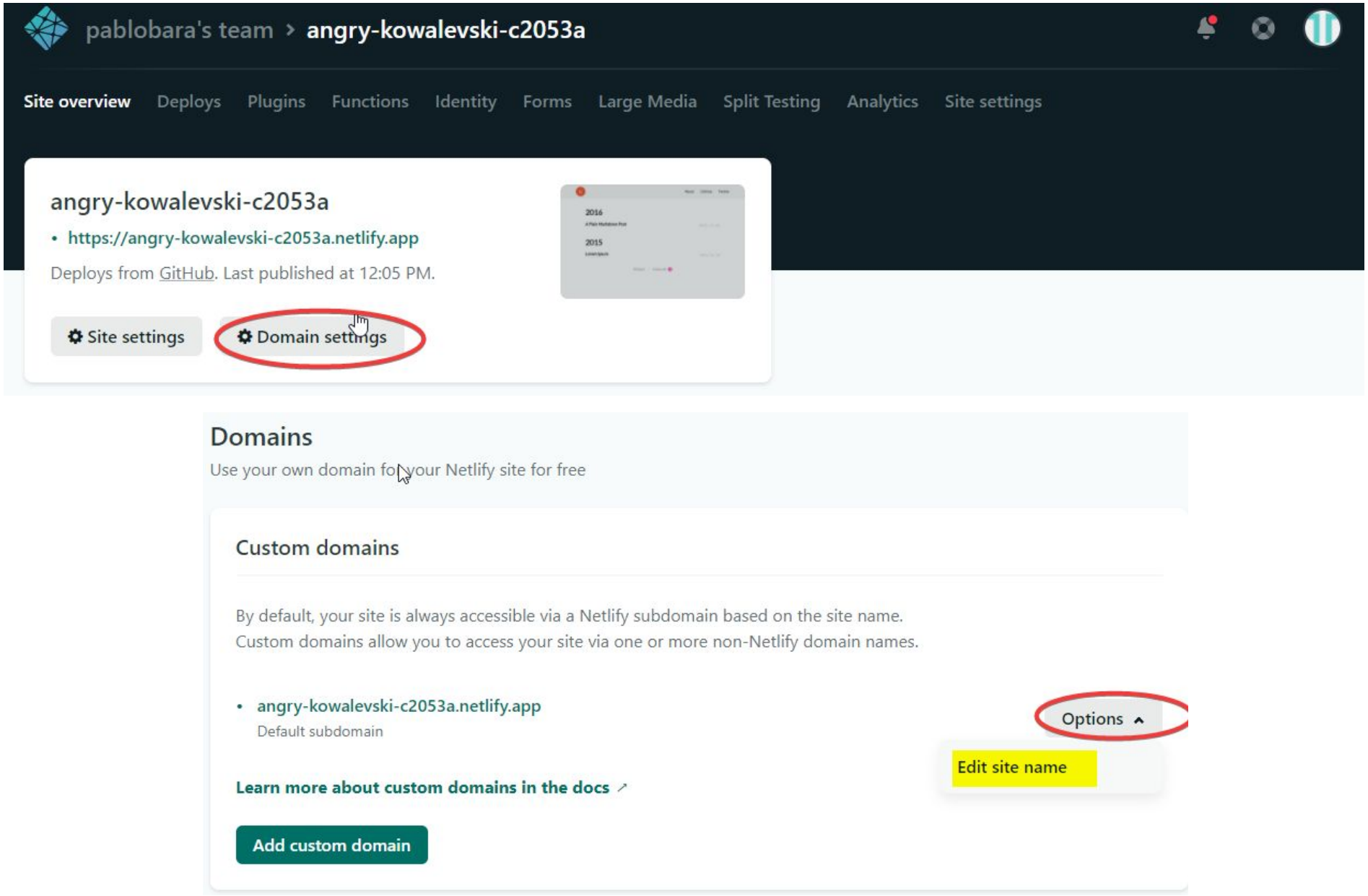
hugo

Publish directory

public

Show advanced

Deploy site


pablobara's team › angry-kowalevski-c2053a
Site overview
Deploys
Plugins
Functions
Identity
Forms
Large Media
Split Testing
Analytics
Site settings
angry-kowalevski-c2053a
https://angry-kowalevski-c2053a.netlify.app
Deploys from GitHub. Last published at 12:05 PM.
Site settings
Domain settings
Domains
Use your own domain for your Netlify site for free
Custom domains
By default, your site is always accessible via a Netlify subdomain based on the site name.
Custom domains allow you to access your site via one or more non-Netlify domain names.
angry-kowalevski-c2053a.netlify.app
Default subdomain
Options
Edit site name
Learn more about custom domains in the docs
Add custom domain

Make changes to the sample website

Change the name, posts, make changes and remember to:

git add .

git commit -m “message”

git push

Get to know your site

- config.toml
- content
- resources
- static

Resources and Extras

- Find different Themes:
  - https://themes.gohugo.io/
- blogdown: Creating Websites with R Markdown:
  - https://bookdown.org/yihui/blogdown/
- Making a Website Using Blogdown, Hugo:
  - https://amber.rbind.io/2016/12/19/website/
  - https://alison.rbind.io/post/2017-06-12-up-and-running-with-blogdown/
  - https://arm.rbind.io/slides/blogdown.html#2
  - https://summer-of-blogdown.netlify.com/
- R Markdown:
  - https://bookdown.org/yihui/rmarkdown/
  - ttps://ymlthis.r-lib.org/articles/introduction-to-ymlthis.html
- rbind.io subdomain
  - https://support.rbind.io/about/
- Git and github for R users
  - https://happygitwithr.com/

Questions?