





## Hello!

#### I am Claudia

I am an R-addict and a scientist.

I work at the European Centre for Medium-range Weather Forecasts.

You can find me on Twitter @clavitolo.



#### Today's plan

- Why you should blog
- HTML pages vs WordPress vs static site generators
- Jekyll (markdown)
- Blogdown (HUGO + R + Rmarkdown)



# Why/how you should blog



#### Reasons to blog

- Helps your communications skills (explain complex topics in simple terms to wide audience).
- Allows you to showcase your skills, you can get noticed and be invited to join events, speak at conferences and maybe land your dream job!
- Widen your network of contacts.
- Saves time. Any time you answer a question multiple times through email, you should turn it into a blog post, which makes it easier for you to share the next time someone asks.

(Based on a blog post by Rachel Thomson @math\_rachel: http://www.fast.ai/2017/04/06/alternatives/)



#### Tips to start your first post

- Make a list of links to other blog posts, articles, or studies that you like, and write brief summaries or highlight what you particularly like about them.
- Summarize what you learned at a conference you attended, or in a class you are taking.
- Don't be a perfectionist (write quickly and often).
- You are best positioned to help people one step behind you. The material is still fresh in your mind. Many experts have forgotten what it was like to be a beginner (or an intermediate) and have forgotten why the topic is hard to understand when you first hear it. The context of your particular background, your particular style, and your knowledge level will give a different twist to what you're writing about.
- What would have helped you a year ago? What would have helped you a week ago?



# 1. Old-fashion STATIC SITE

A static site is a collection of pages contained in basic HTML files. You could hand-write these in a text editor, but managing assets and repeated elements such as navigation can become problematic.



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# 2. WORDPRESS

This is a content management system (CMS) that stores page content in a database and provides facilities to edit and apply themes. Management becomes easier at the expense of flexibility, performance, server requirements, security and backups.

https://wordpress.com

Or alternatively: <a href="https://medium.com">https://medium.com</a>, <a href="https://www.blogger.com">https://www.blogger.com</a>, etc.



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Or alternatively: <a href="https://medium.com">https://www.blogg</a>



# 3. **JEKYLL and HUGO**

These are static site generators (SSG), a compromise between using a hand-coded static site and a full CMS. You generate an HTML-only website using raw data (such as Markdown files) and templates. The resulting build is transferred to your live server.

https://jekyllrb.com/ https://gohugo.io/





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https://jekyllrb.com/ (lots of beautiful free template, easy github interaction, Rmarkdown is not supported!)
https://gohugo.io/ (some nice free templates, github interaction is a bit annoying, Rmarkdown is supported)

## Building a site with Jekyll is easy



**First** 

Look for a nice theme and test it for responsiveness

Second

Fork the theme on GitHub and make GitHub pages

**Third** 

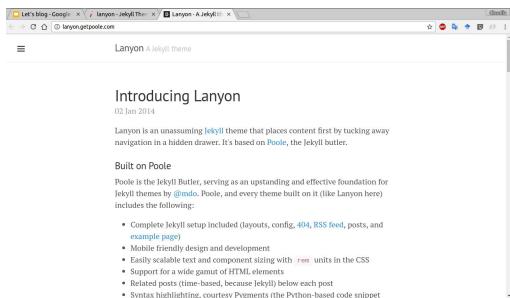
Clone the repo, make changes, commit and push to GitHub

## First: look for a nice theme And test responsiveness



Go to <a href="https://jekyllthemes.io/theme">https://jekyllthemes.io/theme</a>, select FREE themes and click on lanyon

Or go directly to <a href="https://jekyllthemes.io/theme/15489219/lanyon">https://jekyllthemes.io/theme/15489219/lanyon</a>

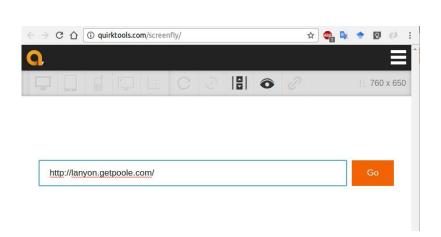


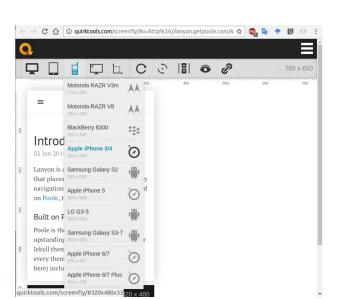
#### First: look for a nice theme

#### **And test responsiveness**

Test how this looks like on other devices:

http://quirktools.com/screenfly/

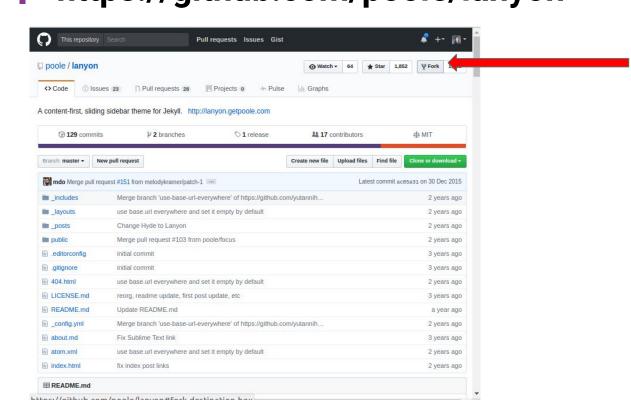






## Second: fork the github repository https://github.com/poole/lanyon





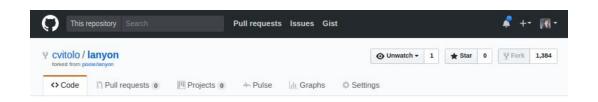
Do not download the template but fork it!

Forking is a form of acknowledgement.

Like a citation, it allows the author to keep a record of all the times his/her work was used.

#### Second: fork the github repository





#### Forking poole/lanyon

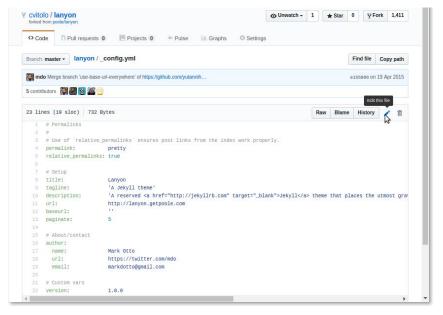
It should only take a few seconds.

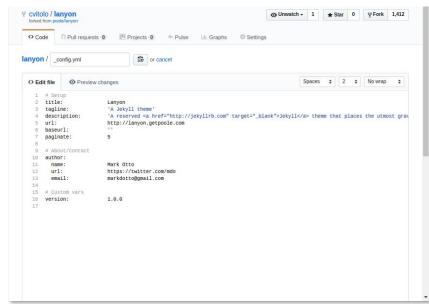




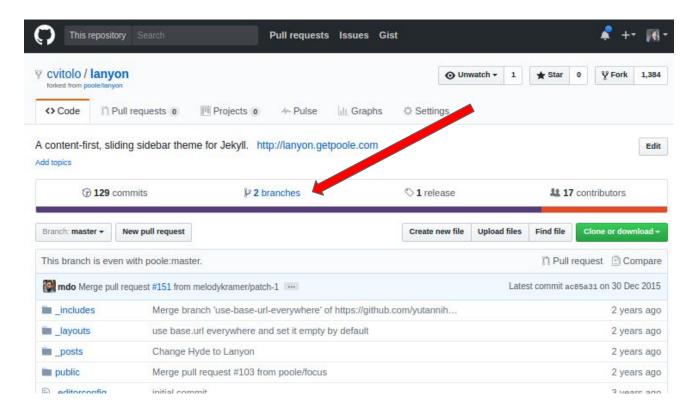
#### Second: fork the github repository Edit the file \_config.yml (remove lines 1-6)

#### BEFORE AFTER

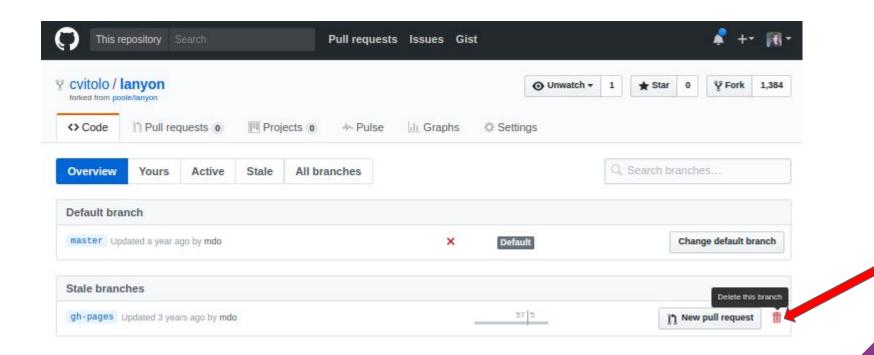




## Second: fork the github repository Remove additional branches - leave only the master

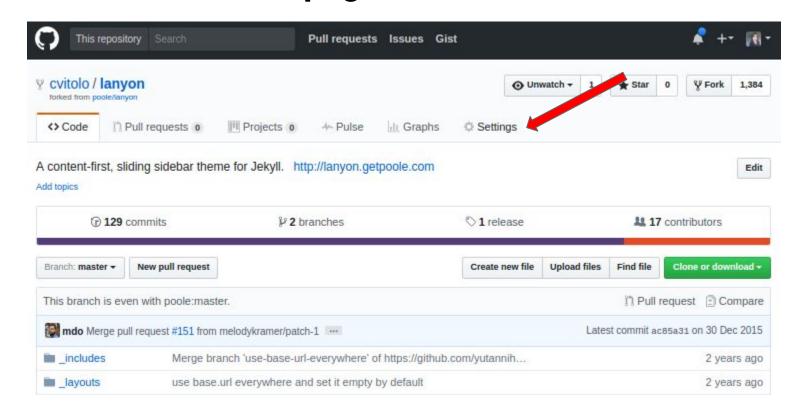


## Second: fork the github repository Remove additional branches - leave only the master



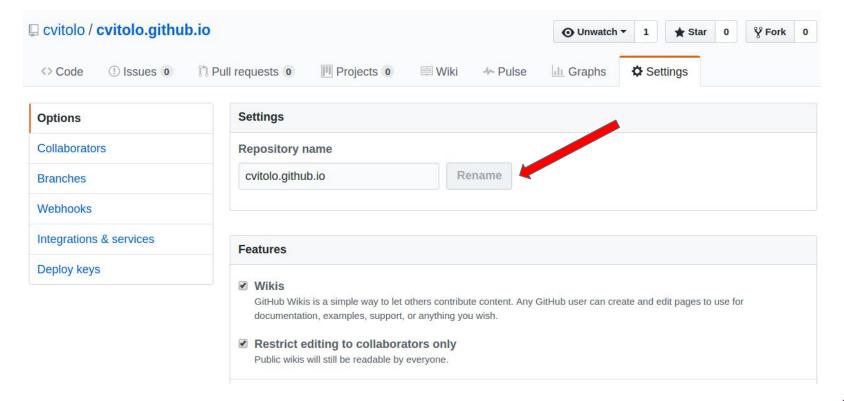
## Second: fork the github repository And make GitHub pages







## Second: fork the github repository Change the name to <username>.github.io



## **Second: fork the github repository And make GitHub pages**



GitHub Pages		
GitHub Pages is designed to host your person  Source  Your GitHub Pages site is currently being built from the		m a GitHub repository.
gh-pages branch → Save		
Select source X		
✓ gh-pages branch Use the gh-pages branch for GitHub Pages.	heme. Learn more.	
master branch Use the master branch for GitHub Pages.		
master branch /docs folder Use only the /docs folder for GitHub Pages.	3 2	
None Disable GitHub Pages.	olicate the repository.	Make private

## Second: fork the github repository Save and wait few seconds ...

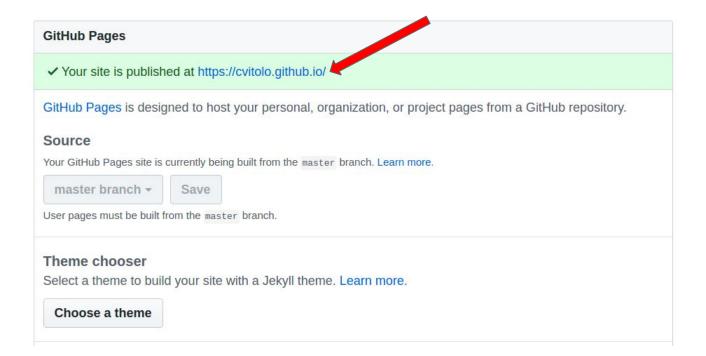


#### **GitHub Pages** GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository. Source Your GitHub Pages site is currently being built for the gh-pages branch. Learn more. master branch + Save Theme chooser Select a theme to build your site with a Jekyll theme using the master branch. Learn more. Choose a theme



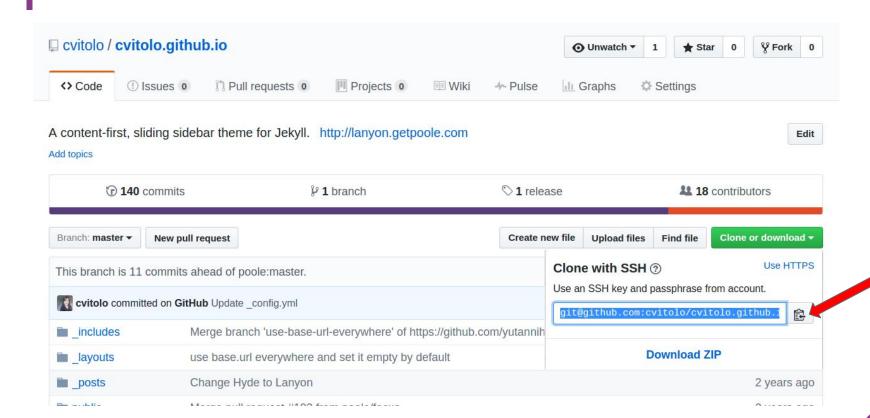
#### Second: fork the github repository

## Et voilà, your blog is published...now let's customise the content!



#### Third: clone

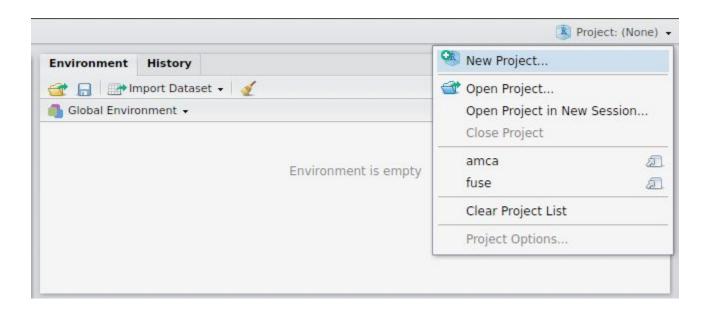




#### Third: clone

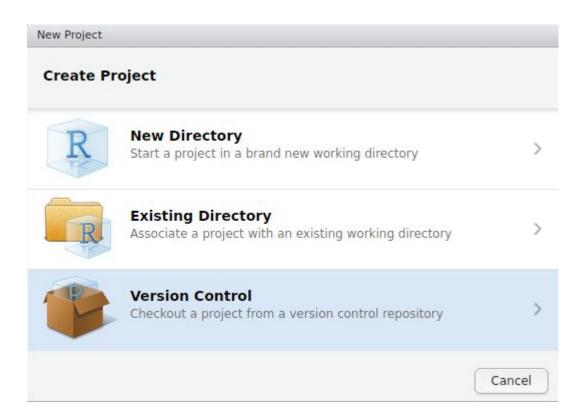
#### **Using RStudio**





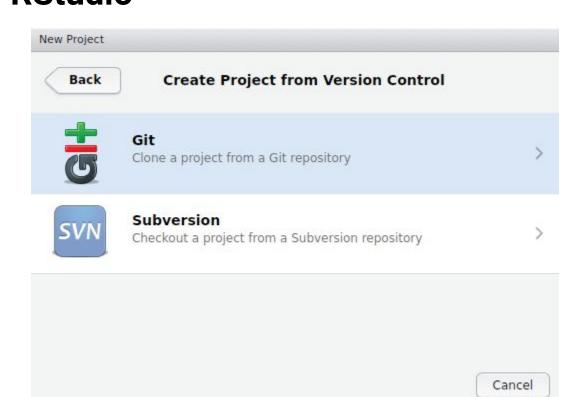
## **Third: clone Using RStudio**





## **Third: clone Using RStudio**





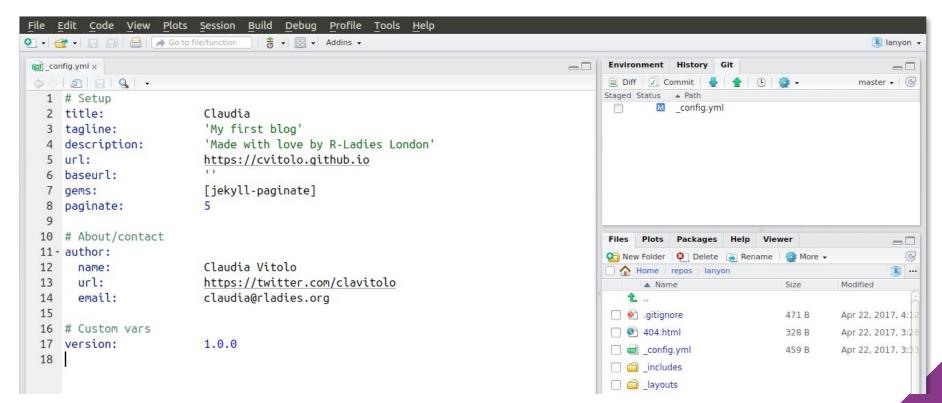
## Third: clone Using RStudio



New Project		
Back	Clone Git Repository	
	Repository URL:	
	git@github.com:cvitolo/cvitolo.gith	nub.io.git
	Project directory name:	
	cvitolo.github.io	8
	Create project as subdirectory of:	
	~/repos	Browse
	,	
Open in new	session	Create Project   Cancel

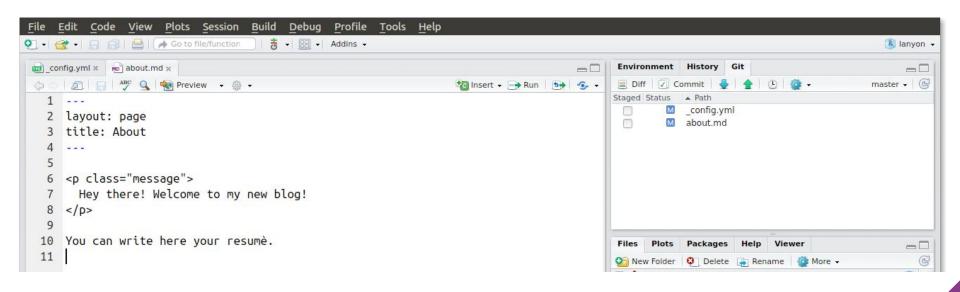
## Third: clone, change \_config.yml





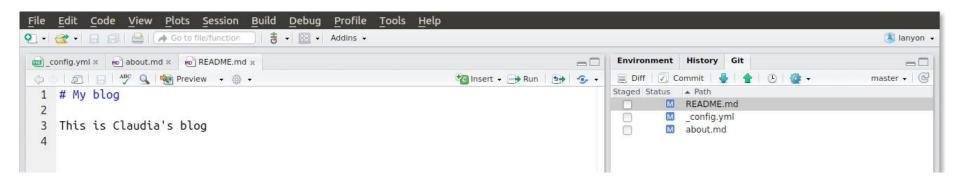
## Third: clone, change about.md





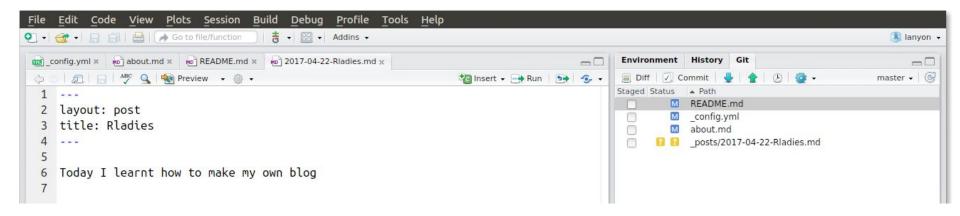
## Third: clone, change README.md





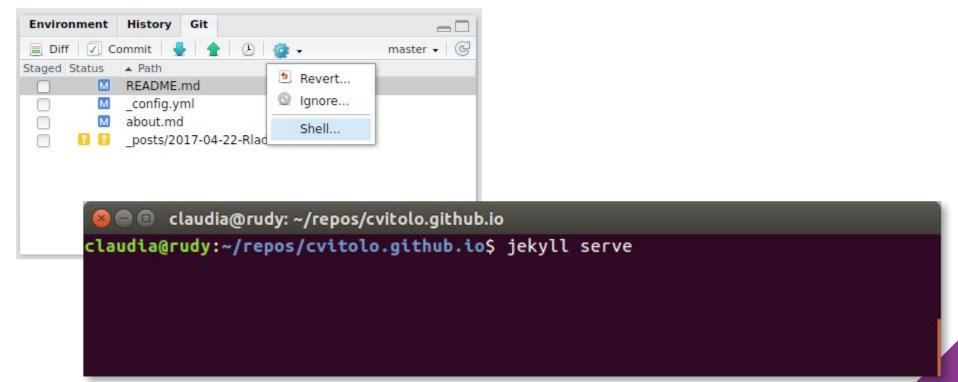
#### Third: clone, change/add

Create a new post: \_posts/2017-04-22-Rladies.md



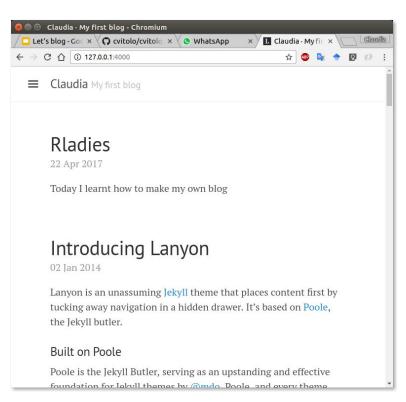






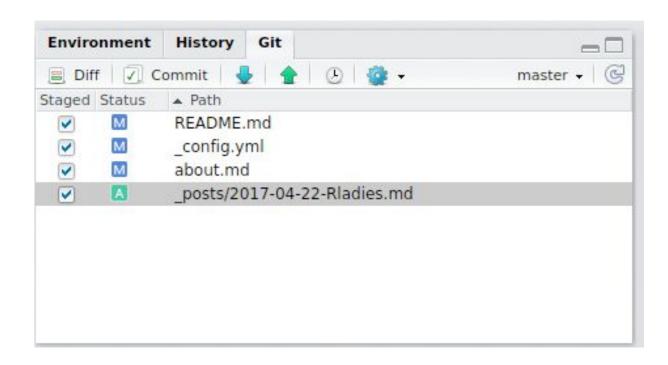
## Third: clone, change/add, build Using jekyll





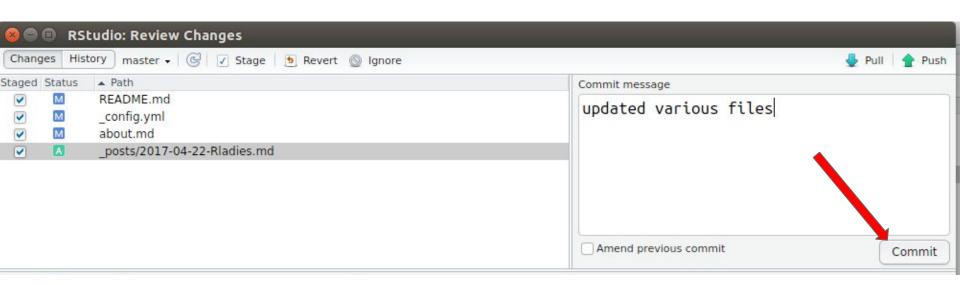
## Third: clone, change/add, build, commit





## Third: clone, change/add, build, commit





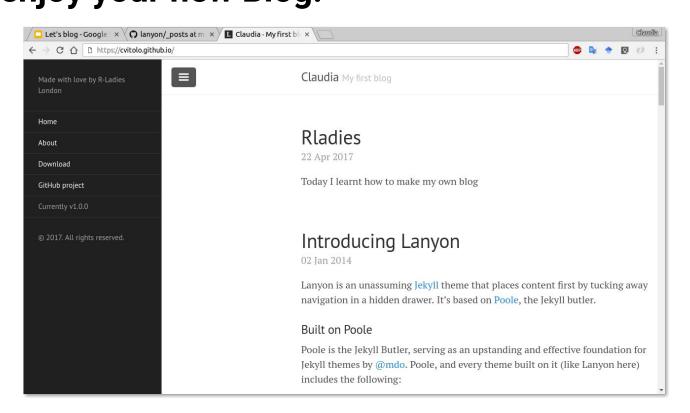
## Third: clone, change/add, build, commit&push



	Pull 👚 Push
Commit message	
Amend previous commit	Commit



# Third: clone, change/add, build, commit&push And enjoy your new Blog!







Try using more complex but well documented templates, some examples:

https://jekyllthemes.io/theme/23038198/feeling-responsive

https://jekyllthemes.io/theme/20925877/JekyllMetro

https://volny.github.io/stylish-portfolio-jekyll/





**First** 

Create a GitHub repo and clone it locally

Second

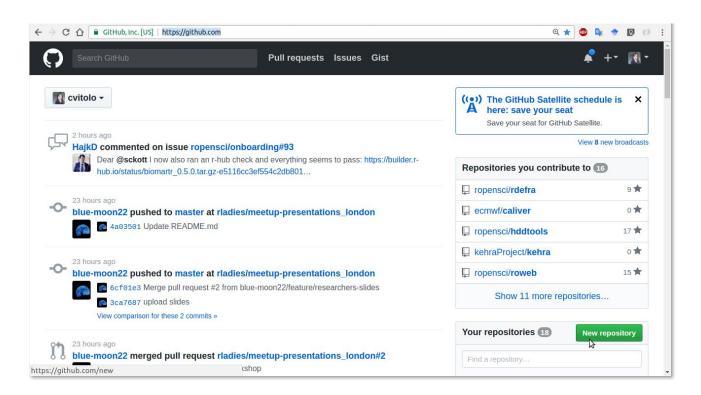
Generate a default blog, then apply theme (via R) https://bookdown.org/yihui/blogdown/

**Third** 

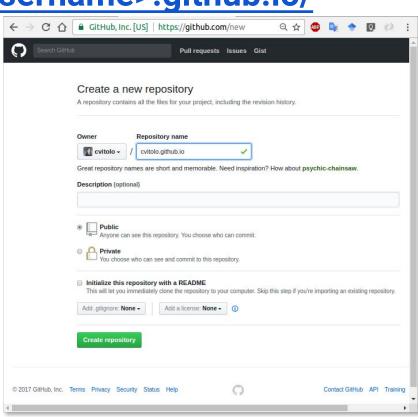
Make changes, commit and push to GitHub

#### First: create a new repo On GitHub





## First: create a new GitHub repo <a href="https://<username>.github.io/">https://<username>.github.io/</a>





## First: clone the new repo Locally (on your machine)



ld topics	vebsite, or topics provid	led.				Edit
<b>②1</b> commit		<b>♡ 0</b> release	O releases			
Branch: master •	New pull request		Create new f	ile Upload files	Find file C	lone or download •
■ README.md Initial commit  ■ README.md		ommit	Use an SSH key and passphrase from account.			
cvito	lo.github.id	)				
orno						

## First: clone the new repo Locally (on your machine)



Repository URL:	
git@github.com:cvitolo/cvitolo.github.io.git	
Project directory name:	
cvitolo.github.io	
Create project as subdirectory of:	
~/repos	Browse



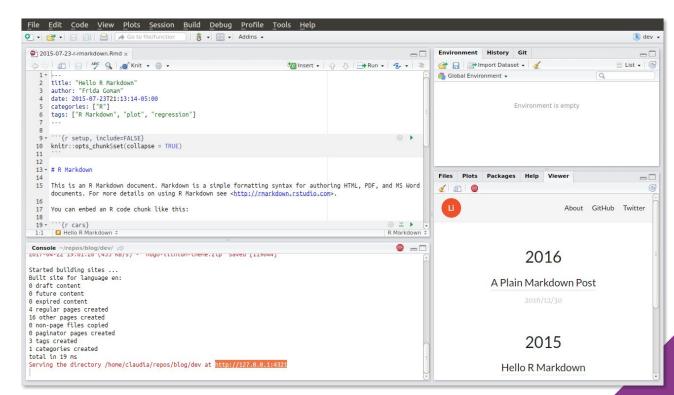


```
if (!requireNamespace("devtools")) install.packages("devtools")
devtools::install_github("rstudio/blogdown")
blogdown::install_hugo()
```





blogdown::new\_site()



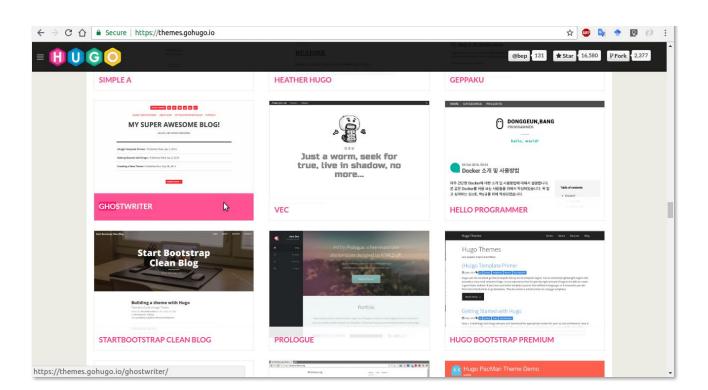
# Second: generate default blog In your browser



← → C û 127.0.0.1:4321				☆	ABP 💁	• 0	(c) :
Li		About	GitHub T	witter			
	2016 A Plain Markdown Post		2016/12/30				
	2015 Hello R Markdown		0.045 (0.5/0.5				
	Lorem Ipsum		2015/07/23				
	RSS feed / Made v	with <b>(</b>					

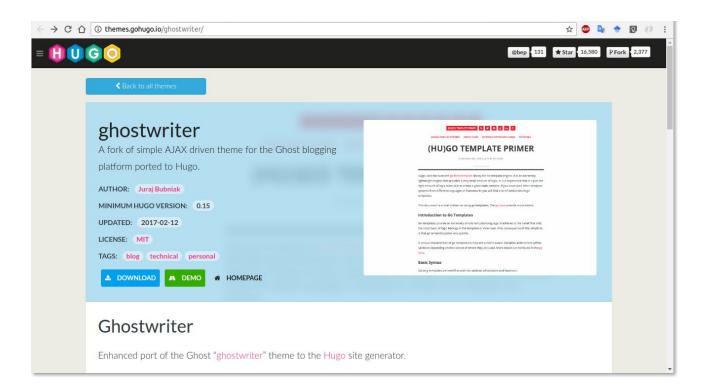
## Second: apply a theme (optional) <a href="http://themes.gohugo.io/">http://themes.gohugo.io/</a>











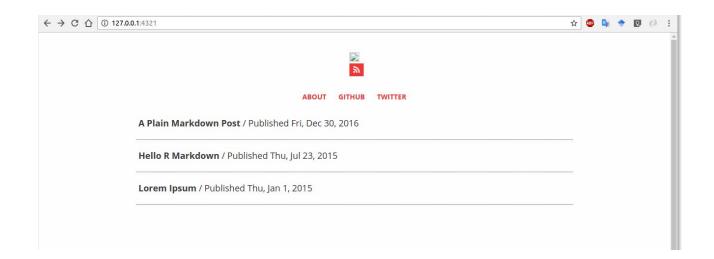
If you want to use a different theme, remember to check the responsiveness (as we did with the jekyll site)!





blogdown::install\_theme('jbub/ghostwriter')

blogdown::serve\_site()



## Third: add your content config.toml

```
2015-07-23-r-rmarkdown.Rmd * config.toml x
     baseurl = "/"
     relativeurls = true
     languageCode = "en-us"
     title = "Mv Hugo website"
    theme = "ahostwriter"
    googleAnalytics = ""
     disgusShortname = ""
     ignoreFiles = ["\\.Rmd$", "_files$", "_cache$"]
     [permalinks]
 10
         post = "/:year/:month/:day/:slug/"
 11
 12
 13
     [[menu.main]]
 14
         name = "Claudia Vitolo"
         url = "/about/"
 15
     [[menu.main]]
        name = "GitHub"
 18
         url = "https://aithub.com/cvitolo"
     [[menu.main]]
         name = "Twitter"
 20
 21
         url = "https://twitter.com/clavitolo"
 22
 23
     [params]
 24
         description = "A website built through Hugo and blogdown."
 25
 26
         # options for highlight.js (version, additional languages, and theme)
 27
         highlightisVersion = "9.10.0"
 28
         highlightCDN = "//cdn.bootcss.com"
 29
         highlightjsLang = ["r", "yaml"]
 30
         highlightjsTheme = "github"
 31
 32
         [params.logo]
 33
         url = "logo.png"
 34
         width = 50
 35
         height = 50
         alt = "Logo"
```

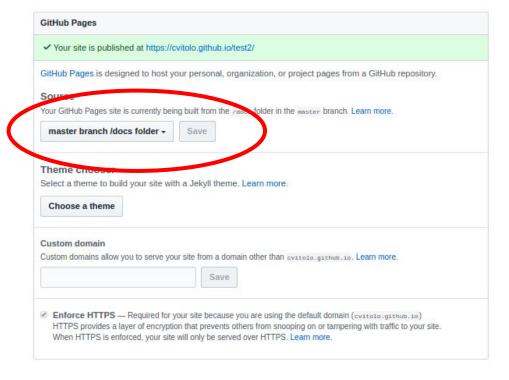


Add here your details and add the following line:

publishDir = "docs"

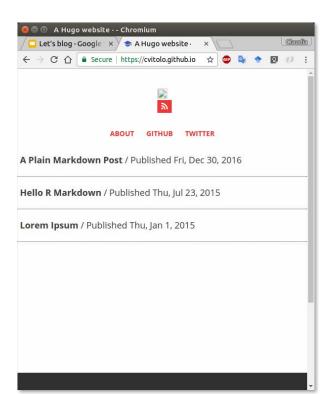
## Third: commit and push

## Last step: go to your repo on GitHub -> Settings



#### Well done!

## Your blog is now live at <a href="https://<username>.github.io/">https://<username>.github.io/</a>





# Happy blogging!