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UBC Library, October 2024



Research Commons teaching approach
Pre-Github
2020+

History and Background for UBC Library

- Design of teaching approach and working the Carpentries
- How does RDM fit in
- Data Bites approach, 30 mins workshop
- ssessment and lessons learned

Commons

A multidisciplinary hub supporting research endeavours, partnership and education.

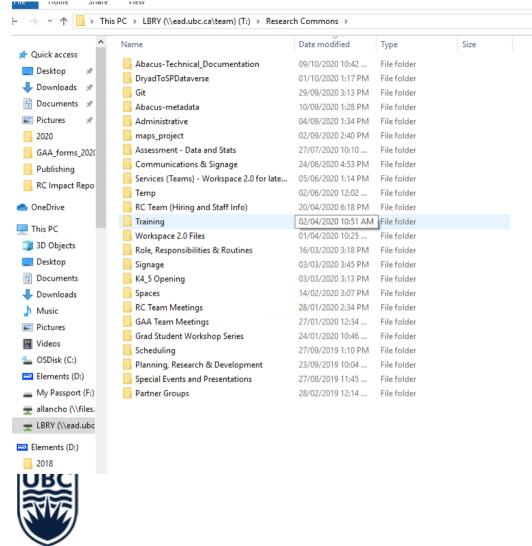
- New team, new approach
- In January 2020
- Working and learning together



"Pre-GitHub"

- Many internal shared folders
- Non-portable & non-reproducib
- Uncoordinated approaches





Proposed New Approa

- Collaborative, using freely available too accessible outside of the university
- Git, GitHub, Github Pages & Reveal.js
- Presentations through Github Pages



wny GitHub?

- Existing experience on the team with Gi Github
- Already in use by members of the team similar cases (GIS workshops)
 - This included workshop content in rep Reveal.js slides via GH Pages



Community inspiration

- Inspiration from the Carpentries' OER n
- Philosophical desire to lower barriers to and remixing
 - Not a UBC specific platform / approach
 - Content requires only a browser wind access and is downlodable for bad connections



Upskilling

- New team, new desire to upskill and explain with new workflows
- Goal to better support technical consults



Sustainability

- Text-based approach easy to move, ren repurpose
- Better ownership, collaboration, and maintenance workflows with growth in s
- Currently, Github Pages is free and unli our use case



The workflow



Setup

- GitHub account for each contributor
- GitHub
 organization for
 Research
 Commons



Setup

- GitHub account for each contributor
- GitHub
 organization for
 Research
 Commons

Content

- Markdown files
- reveal.js html files



Setup

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Content

- Markdown files
- reveal.js html files

- SkillsMarkdo
 - (everyo
- Git/Gith (everyo)
- Jekyll tl
 (some)



Introduction to Docker

This workshop is meant to introduce you to the set of virtualization tools referred to as [Docker](https://www.docker.com/), which all you to use, create, and share container images.

![Docker dark background icon](content\figures\docker_boyi_wu.jp Retrieved from [Bo-Yi Wu on Flicker](https://www.flickr.com/phot

[Containers](https://www.cio.com/article/2924995/what-are-containers small reproducible computing workspaces on your computer, which you can ascribe specific libraries and constraints to replicate specific environments.

Workshop Objectives

We'll first discuss broader concepts from the computing virtualispace, disambiguate the many interrelated components of the



Outline

Participating online

Part 1 - What's Docker?

- Origins and High Level Concepts
- Main Use Cases
- Disambiguating Docker
 Terms

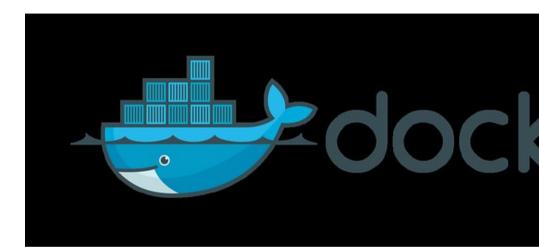
Part 2 - Technical Overview

- Paths to installing Docker
- Docker Commands
- Learning Activities
- Resources and next steps

Reference



This workshop is meant to introduce you to the set of virtualization too Docker, which allow you to use, create, and share container images and environment that are useful for ensuring reproducibility in research.



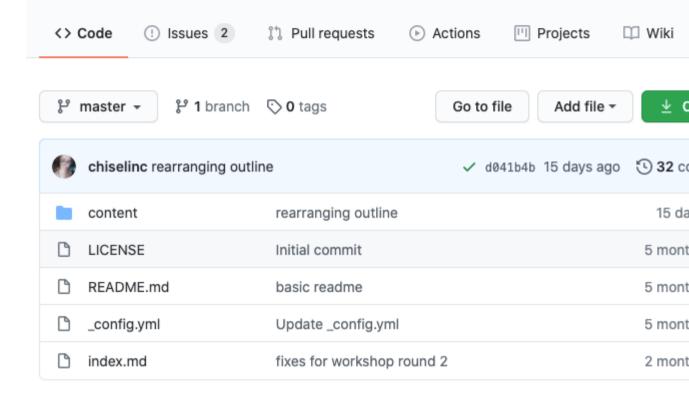
Retrieved from Bo-Yi Wu on Flicker, CC BY 2.0

Containers create small reproducible computing workspaces on your can assign specific libraries and constraints to replicate specific enviro

Workshop Objectives

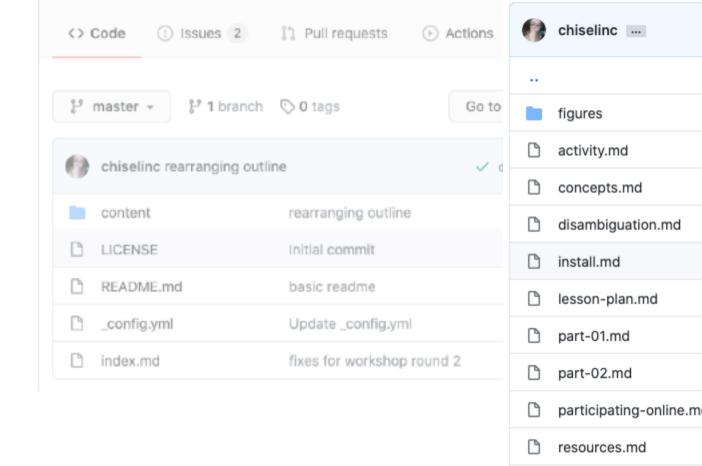
We'll first discuss broader concepts from the computing virtualization set the many interrelated components of the Docker ecosystem, and explosion







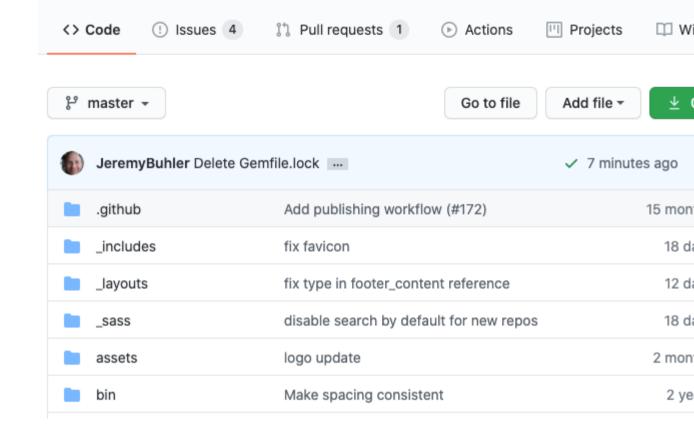




uses.md











```
1 title: Intro to Docker
 2 remote theme: ubc-library-rc/rc-workshop-template
 3 github repo url: "https://github.com/ubc-library-
 4
 5 # license information for workshop content
 6 license name: "Creative Commons Attribution 4.0 I
  license url: "http://creativecommons.org/licenses
  license image url: "https://i.creativecommons.org
10 # required for building jekyll site locally
11 plugins:
12 - jekyll-remote-theme
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12
     - jekyll-remote-theme
13 - jekyll-seo-tag
```



Instructions and documentation

https://ubc-library-rc.github.io/rc-workshop-ter



template

Running locally (optional)

Publishing slides

TABLE OF CONTENTS

- 1 Set up the RC workshop site
- 2 Add/edit content pages
- a Add child pages
 - b TOC on parent pages
 - c Exclude a page from navigation menu
 - Selected text formatting options
 - a Callouts
 - b Step-by-step instructions
 - c Terminal input/output
 - d Code block syntax highlighting
 - e Circled numbers
 - f Dropdowns
 - a Table of contents

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UBC Library Research Commons

Start with the instructions below to setup a Research Commons worksl website. For more customization and configuration options see Just the

Set up the RC workshop site

Improvement and maintena

- Content Review Tracking repo for wor level
- GitHub Issues for specifics
- Pull requests for integrating changes





JeremyBuhler Copyright	13 days ago 🖰 21		
images	add review guideline notes	2 months ago	
README.md	Copyright review, R workshops	13 days ago	
review-guidelines.md	added note about suggesting a fix	2 months ago	

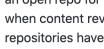
README.md



Add a new row in the table below for repositories that need a general content review. If the content/workshop is still a work in progress, add a mext to the workshop title.

A general review should identify areas that need updating due to changing software versions, improvements in clarity, spelling and grammar, etc. Suggested updates should be noted as issues in the source repository. When finished, the reviewer should add their initials and date the review was finished.

Workshop	Last reviewed	Initials	Copyright review	
Intro to web maps	July 2020	EF		
Intro to web scraping	August 2020	EF	JB	







No releases published

Create a new release

Packages

No packages publishe Publish your first pack

Contributors 4



ElizabethFer



ect123 Evan



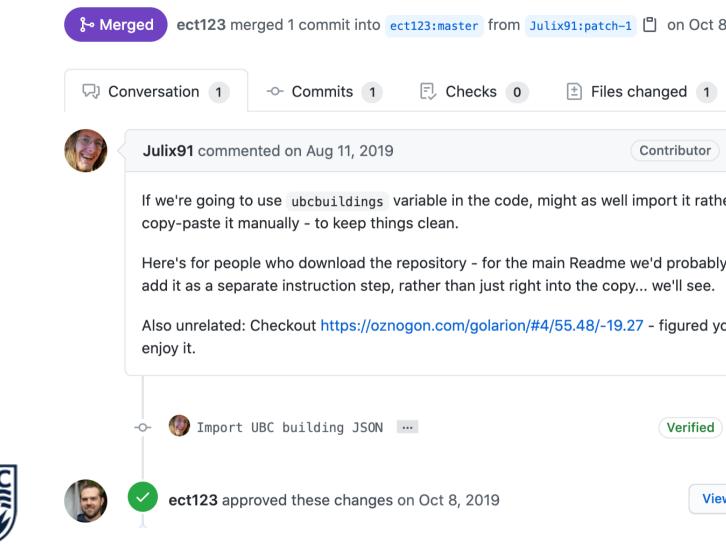
JeremyBuhle



egrguric



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				k of code t on Jul 23 by E	o .zip file ElizabethFernand	es						
				ector tile ex	•							
			Code comments describing code functions good first issue help wanted #3 opened on May 29 by ect123									
				map to inc								
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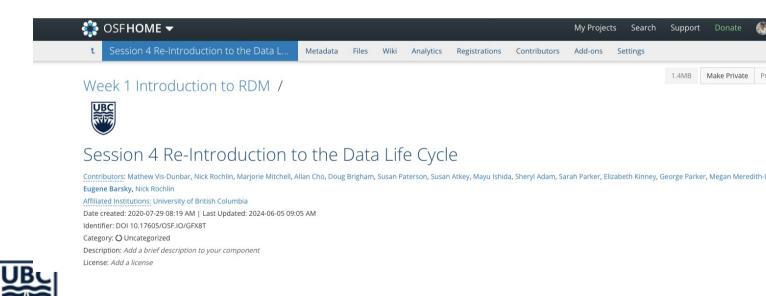




- Capacity limits loss of GAA funding
- Content review delays with lower capac
- When GitHub changes a workflow so do
- Delivery differences for different audiences experimenting with both longer form and form sessions
- Giving back to the Carpentries



- of teaching platforms
- Google Slides, OSF, PPT, and more...
- Nothing really worked



- Gut feeling too much content
- 60-90 minutes of RDM is hard to absorbed topic gets swallowed by the next
- Needed drastic redesign of content
- Needed smaller chunks, that build on to another but also can be independent ar to be served to a variety of researchers students

Enter Data Bites

- Series of 30 minutes workshops
 - 10 minutes of content
 - 10 minutes of exercises
 - 10 minutes of questions
- Over the lunch hour, in-person or Z



Format

- Research Commons Github template
- Each workshop features two participato exercises on Padlet
- A lot of hands-on
- Supplemented by a one-page PDF as a to-go



Example - File Namir workshop

- Introduce the principles
- Do a little exercise
- Reflect and ask questions
- See live <u>File Naming</u>



always attending)Overall, each workshop is offered three

Offered once a week by an RDM GAA (

- each term
 Attendance steady at around 10-15 stud
- researchers
 Many staff are attending lab managers facilitators, research coordinators...
- eedback 96 percent satisfaction

- Some classes want to combine these minto one workshop
 - MEDI 503
 - Master of Geomatics for Environment Management program
 - Mechanical Engineering 497
 - Brain Science NRSC510
- All grad level

Assessment

- 45 workshops offered for more than 800 attendees last school year (September August 2024)
- Survey sent two hours after the workshop
- Data collated monthly
- High satisfaction overall (96 percent)
- Some tweaks suggested and some imp

Assessment

- Yearly review of content in the summer
- New GAA = opportunity to update and he eyes
- Asked for community feedback
- Some professors review and sometimes content



- GAAs need training and support to offer workshops
 - Six weeks hands-on training
 Content needs to be fresh, people notice
- Content needs to be fresh, people notic stamps
- Only around half of attendees engage in exercises
- One-page guides are useful takeaway f
 need to be updated yearly

Near Future

Markdown workshops series

- Create README with Markdown to make it real

- Create Data Dictionaries (with a templa
- Hoping for community feedback and sug for new content

