
test-demo Documentation

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1.1 For next/new projects

1. [Directory structure idea](#) to work towards
2. Do automated testing for small things (units, etc) or big things. Matlab ([maybe outdated](#)) or [documentation](#)
3. Related, [Travis](#) for auto-test and to display test to community
4. [snakemake](#) and [makefiles](#) in general

1.2 For existing projects

- branch from master to test/add new things, then merge
- git graph
- README all the time

1.3 When interacting on GitHub

- fork/config - branch - pull request
- “fixes #N” to address issue in pull request

1.4 In general

- so much more familiarity with terminal
- used nano for the first time (and got into the swing of things)

- wrote first shell commands
- wrote first python scripts
- realized that jupyter notebooks aren't all I thought they would be [I think this is a good thing – version control > notebook]
- fixed my website!
- **gh-pages or sphinx to generate html, make various pages**
 - pair with readthedocs

1.5 Useful commands

- touch

2.1 Day 1

Intro to version control, Social Coding, Open Data

- Really useful and important background, foundation of the course
- Good background even to difference between git and github, git vs “open data” as many think these are synonymous
- Time management can be challenging but I appreciate the time given to specific questions, follow-up, etc.
- Tutorials were good in that they reminded us of code/lessons we’d previously learned, re-emphasized tricks, etc.
- Good progression of lessons/code-alongs (time for us to implement, then listen, then implement, then listen)

2.2 Day 2

Automated testing

- Something I’d never implemented that I see being extremely useful
- Excellent practice and aspect to introduce my research group to
- Tutorial allowed us to implement things we’d learned the previous day
- Great introduction to Travis, and implementation. Interesting social platform to show that we use testing, etc.

Archaeology with git

- Also extremely useful, as this is something many of us face.
- Tutorial could have used more show, then let us do it, then show more, then let us do it, to keep everyone following along.
- grep-ing grep.c was confusing - consider using a different file to grep as an example.

2.3 Day 3

Reproducible research

- Great practices to implement (e.g. file tree example, makefiles/snakemake)
- Principles were relevant and tool to implement them was clear
- Good check with audience for whether or not certain things needed to be discussed (e.g. 'is reproducibility important' or the degree to which we used containers)

Documentation

- I liked the different methods shown to do this, the exposure to the different platforms etc.
- Some of the lessons were too demo and then implement after (more code-along with many short breaks might be good in the future)
- Really important skills to be able to produce documentation on in these different formats, with different levels of distribution, etc.

Jupyter Lab

- Good to get acquainted with it – I'd heard a lot and had tried to implement it, but unsuccessfully.
- If anything, learned that it's not all I expected it to be and that other aspects are more important to me (version control, documentation, distribution, workflows)

Modular coding

- Was shorter than planned. Good discussion and important messages.

Overall - Budget a bit more time in for wrap-up, discussion, questions - Keep the model of short pauses in code-along for attendees to implement - Day on/day off model, or morning on/afternoon off model - I hope this can continue to grow around the Nordics - really valuable, and something I hope others attend in the future. I'll spread the word! - Trying to implement the things I learned right away, and remember which ones are important as I open new projects, etc.

Thanks!!!