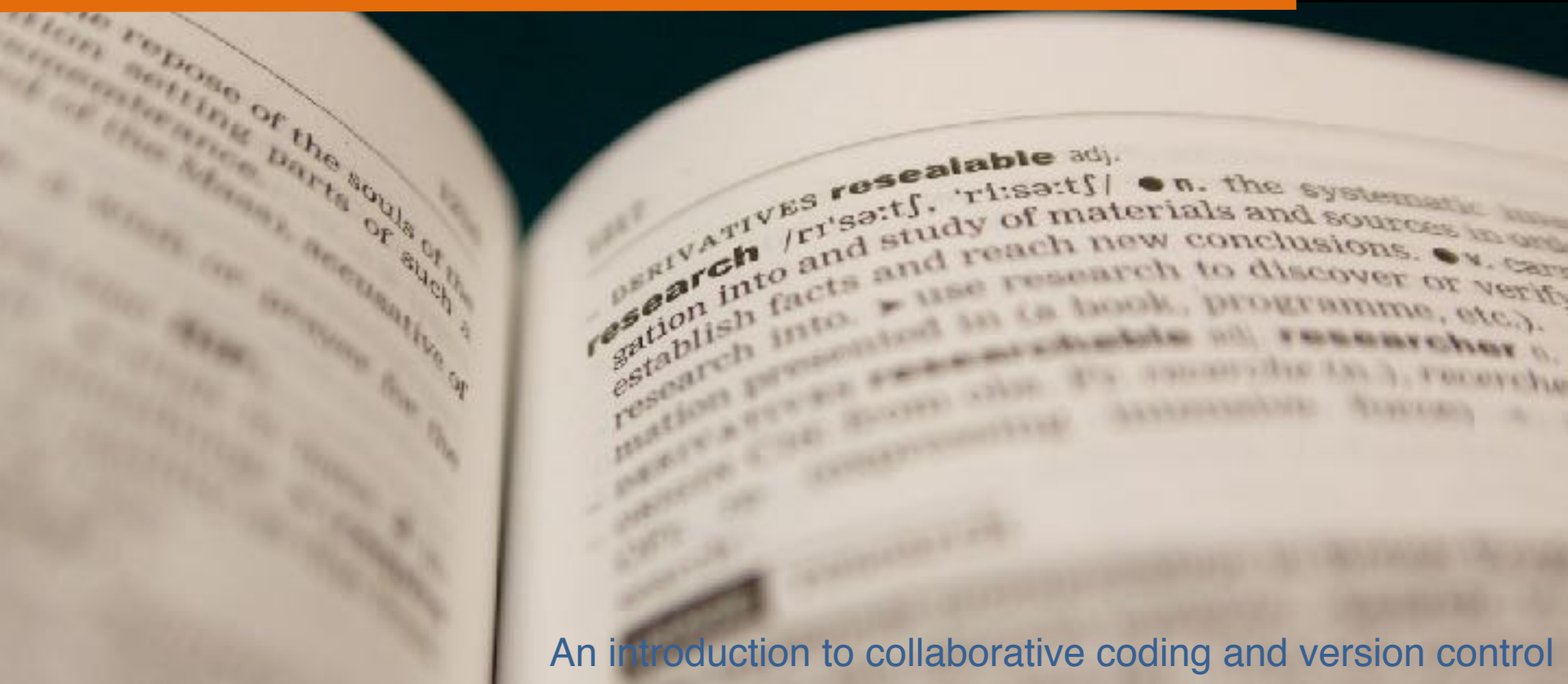


Managing Your Code Using GitHub



An introduction to collaborative coding and version control

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Why Use Version Control?



Introduction to GitHub

GitHub Demo

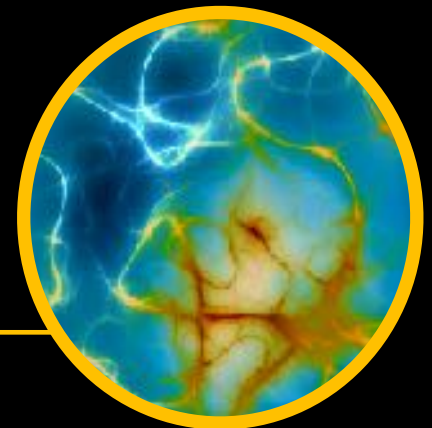


Image credits: Sun by Nasa Goddard, CC-BY-2.0; Silicon Chip by Jannes Pockele, CC-BY-2.0; Neurons by Patrick Hoesly, CC-BY-2.0.

A diagram illustrating the research process. At the bottom is a blue-outlined triangle labeled 'RESEARCH PROBLEM'. Four orange-outlined circles are arranged in a diamond shape above it, connected by orange lines. The circles are labeled 'CODE', 'FIGURES', 'RAW DATA', and 'WRITTE N REPORT' (with a typo). The background is a blurred image of an open book with text.

CODE

FIGURES

**RAW
DATA**

**WRITTE
N
REPORT**

**RESEARCH
PROBLEM**

Users of these slides should embed the YouTube video,
“What Is VCS?” here, from the following address:
<http://www.youtube.com/watch?v=8oRjP8yj2Wo>

Why Use Version Control?

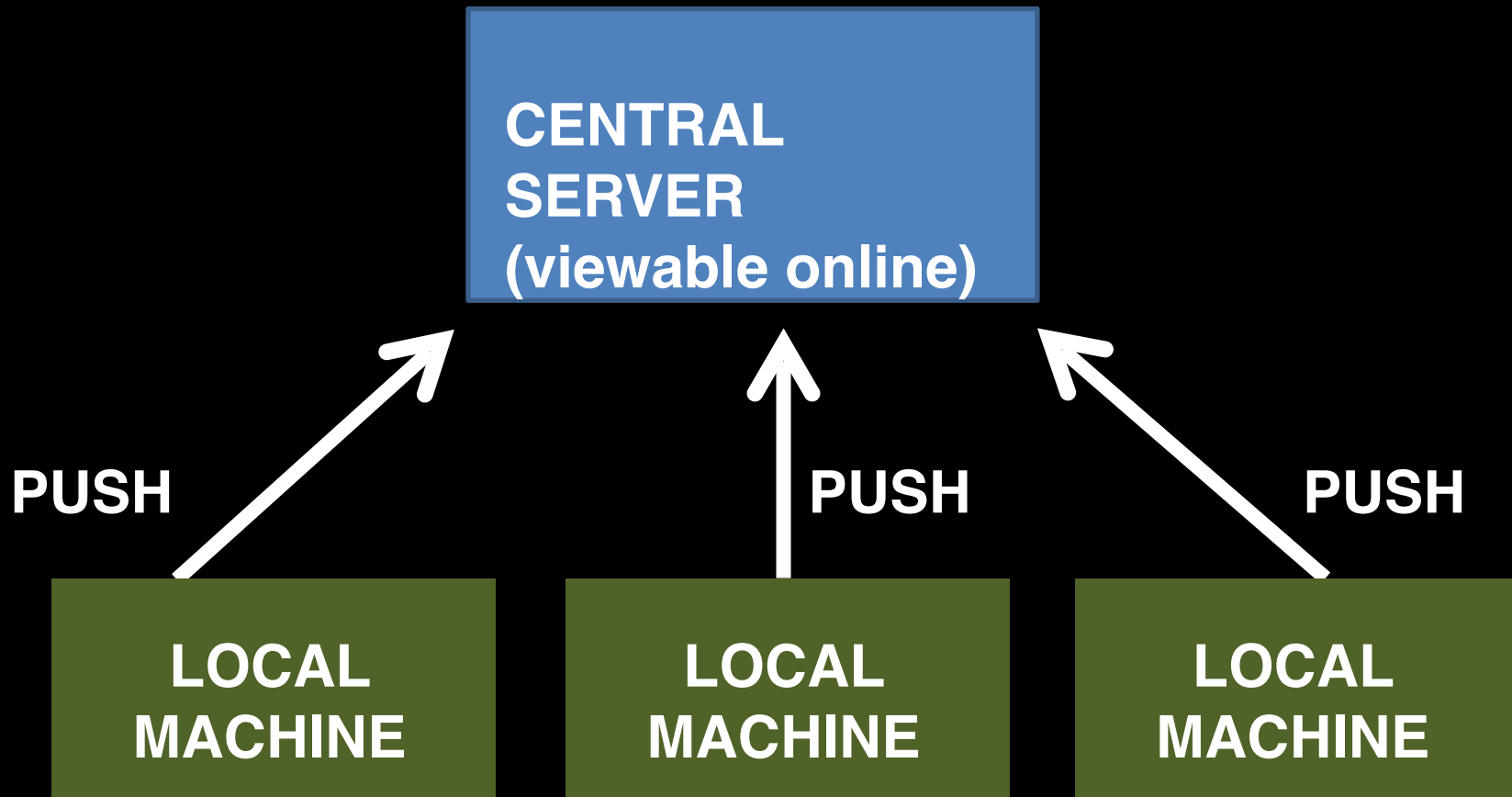
Maintain a **HISTORY** of your work as it progresses

Facilitate **COLLABORATION** when working as part of a big team

Track not only the **CHANGES** to files, but the **AUTHORS** of, and **REASONS** for, those changes

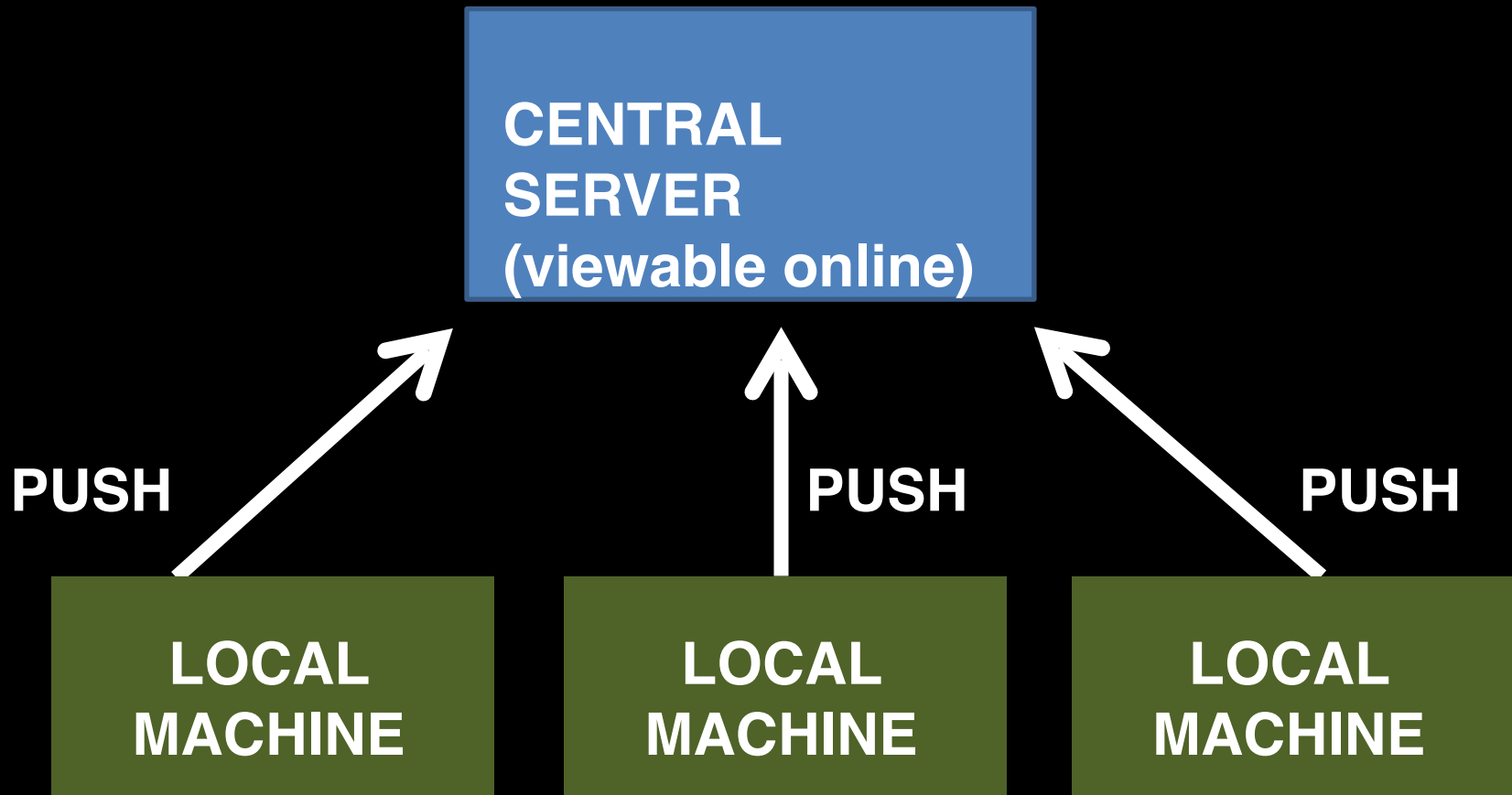
Why Use Version Control?

Version Control in GitHub

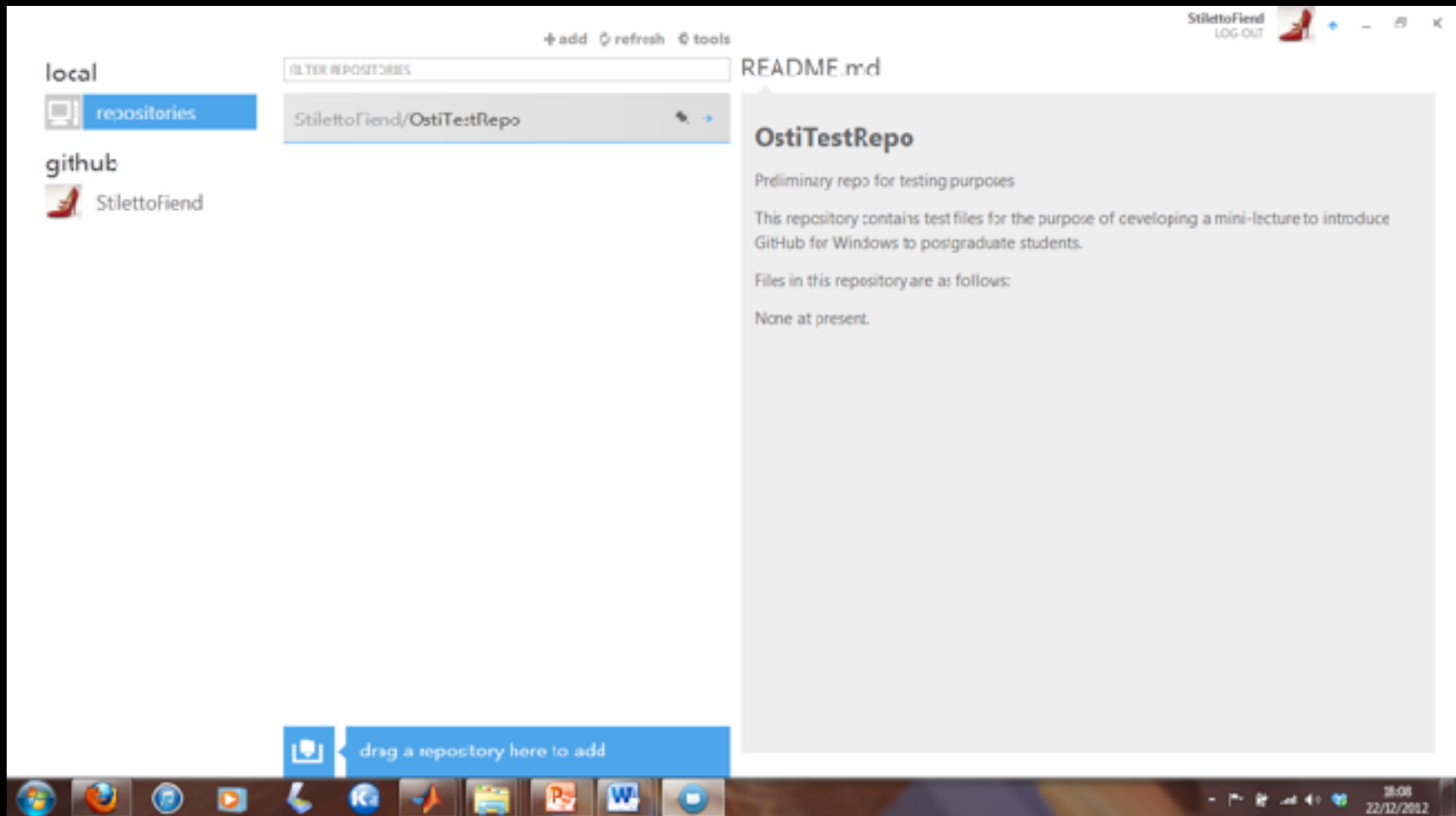


The majority of operations are **LOCAL**
Work from a local directory on your machine before
pushing changes to the central server

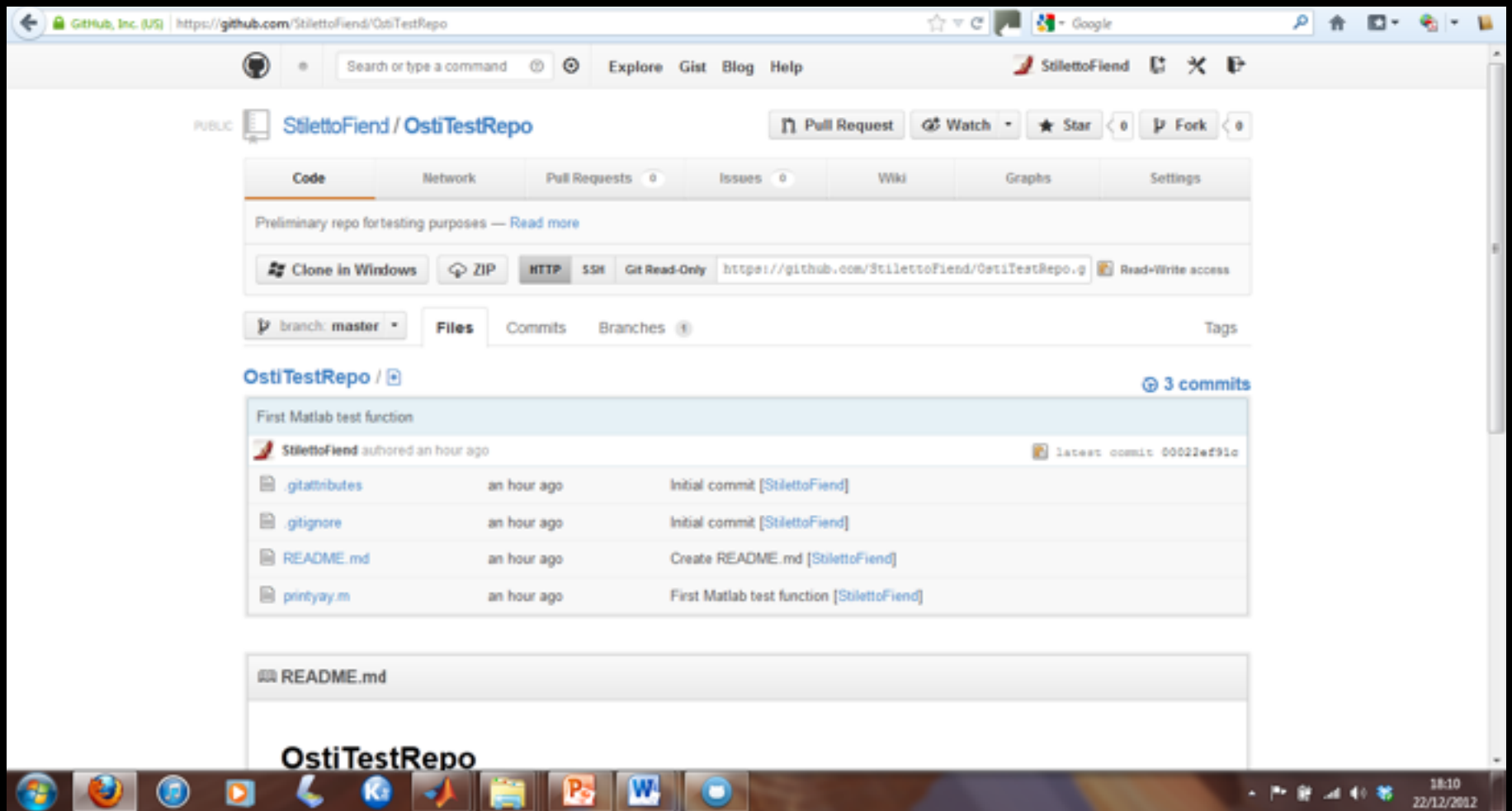
GitHub Structure



MODIFY your files in the local directory for your repo
COMMIT these changes to your local repo
Then **PUSH** them to the central server



GHfW Repo Overview



Online Repo View

ALWAYS check the terms of the system you're using and whether it's public or not

If working with industry, you may be bound by a **Material Transfer Agreement** – not ideal, but you should be aware of potential conflicts

You will also want to consider **LICENSING** your code/data/writing – we'll cover this tomorrow!

Caveats
