

Introduction to version control using GitHub

Dr. Ian Hussey

Digitalisation of Psychology

GitHub

There is a steep learning curve

But its worth it

Where is this stored?

Local
Cloud

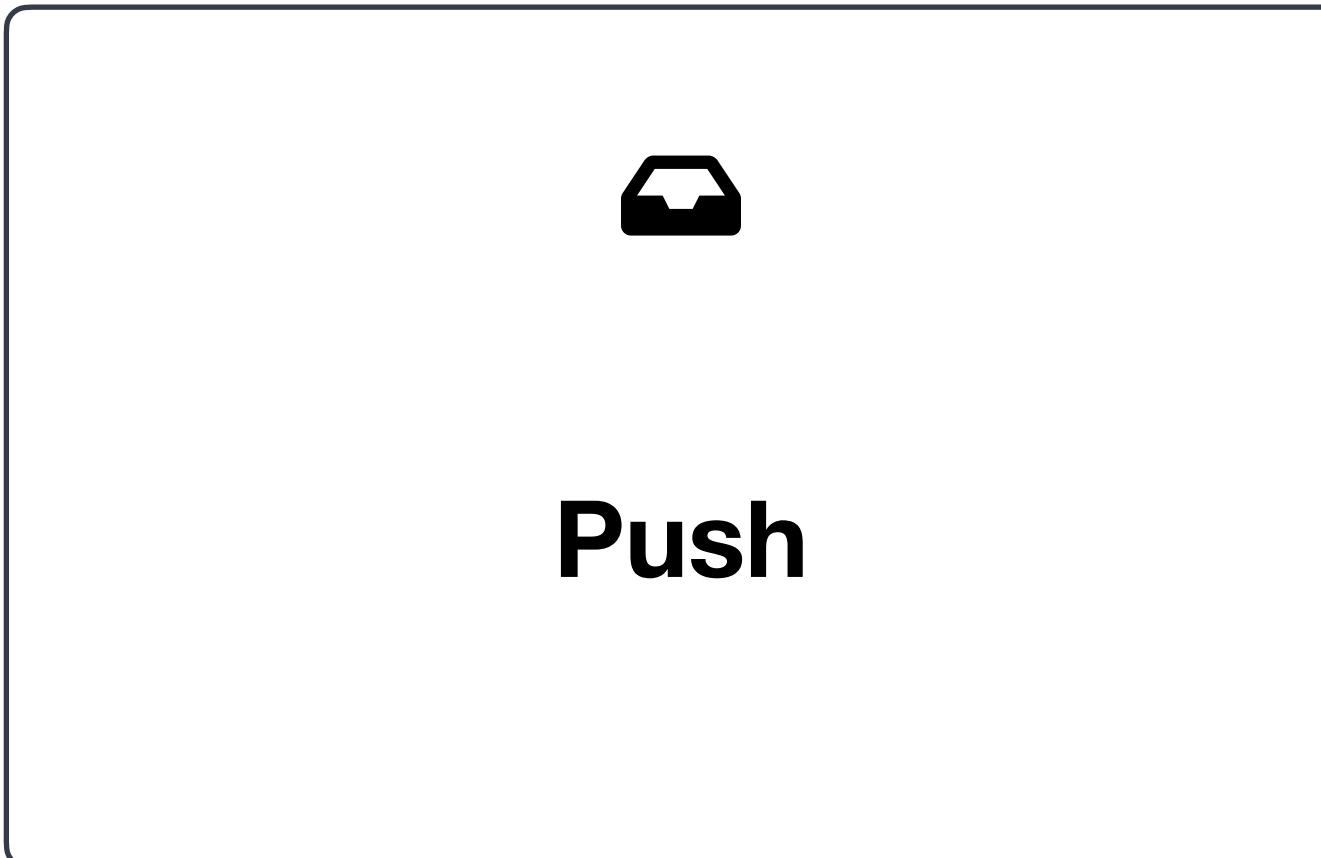
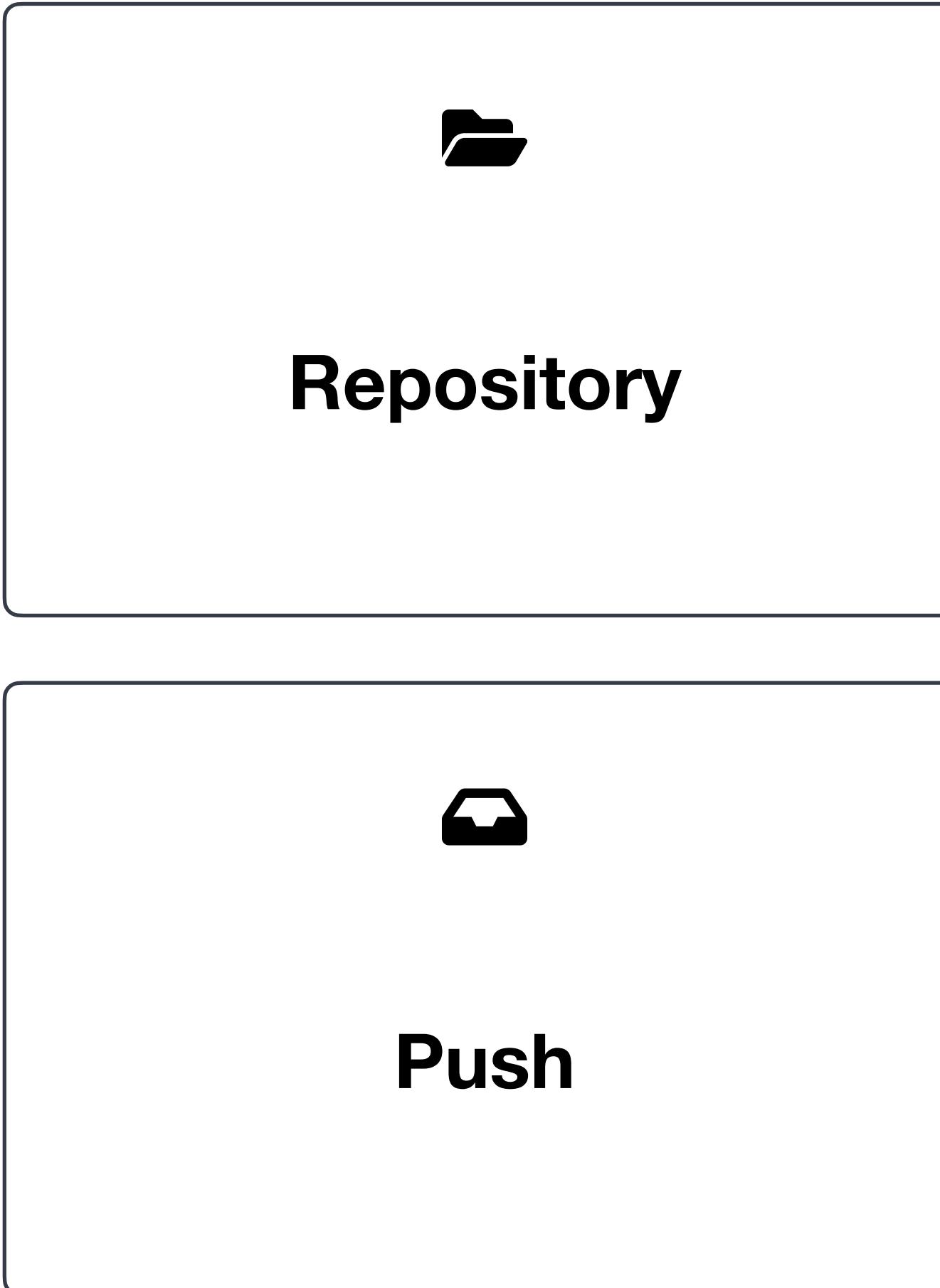
A diagram illustrating storage options. The word "Local" is positioned above the word "Cloud". Two red curved arrows point from each word towards the other, forming a circular connection between them.

Make projects & decisions understandable
for other people*

*including your future self

Github Nomenclature

What you will know by the end



Github Nomenclature

What you will know by the end



Diff



Branch & Fork



.gitignore

- Repo: a unit of project organisation. Can be public or private
- Commit: local snapshot of files, changes, and annotations
- Push: server/cloud snapshot of commits
- Diff: line-by-line differences between the last and current commit
- Fetch: list all commits on server/cloud that differ from local
- Pull: retrieve the fetched list of commits

Core

For today

Advanced

For another day

- Pull request: request to move commits from one branch to another or one fork into another, e.g. to integrate development work into the main project
- Branch: parallel non-identical versions of a repo allowing for development within that repo. E.g., dev by same team with higher tempo of pull requests.
- Fork: parallel non-identical versions of a repo allowing for development between repos. E.g., dev by a separate team with a lower (or zero) tempo of pull requests.

Core

For today

Advanced

For self-study

Link your GitHub repo to an OSF project

Make using OSF and preregistration easier

The screenshot shows the OSF (Open Science Framework) interface for managing add-ons. At the top, there's a navigation bar with links for My Projects, Search, Support, and Donate, along with a user profile for Ian Hussey. Below the navigation is a main content area with tabs for Metadata, Files, Wiki, Analytics, Registrations, Contributors, Add-ons (which is selected), and Settings.

The central part of the screen is titled "Select Add-ons" and contains a sub-section titled "Configure Add-ons". This section is specifically for linking external services to the project. It includes a search bar and a list of categories: All, Citations, Remote-computing, and Storage. To the right of these categories is a list of available add-ons:

Category	Add-on	Status
All	Github	Disable
	GitLab	Enable
	Google Drive	Enable
	Mendeley	Enable
	OneDrive	Enable
	OSF Storage	(This is a default addon)
	ownCloud	Enable

Below this, the "Configure Add-ons" section shows that GitHub is authorized by Ian Hussey. It displays the current repository "ianhussey/alpha-curve" and provides options to Save, Create Repo, or Disconnect Account. A message box at the bottom indicates that the user may need to reauthorize their GitHub access token if they don't see their organization repositories.

Practice



Thank you