

Intermediate Git

Day 1: Understanding Git's Worldview

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Some initial configuration

```
git config --list
```

If your user name and email are not set:

```
git config --global user.name "Raman A. Shah"  
git config --global user.email "raman@uchicago.edu"
```

If you don't like vim firing up in the middle of doing Git stuff:

```
git config --global core.editor "nano"
```

Git is...

... a distributed
version control
system.

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Git is...

... a **distributed**
version control
system.

... a great way to collaborate
on projects consisting of
many code or text files.

... meant for perfecting
(software) *products*.

... something that enhances
a directory in your
filesystem.

... safe because it tracks every single bit in your files and commits with hash functions.

... fast because it stores a
(compressed) copy of
every version of every file
locally.

... hard because efficiently
managing version control
and collaboration is hard.

Playing with the Past

```
git log
```

```
git diff
```

```
git show
```

```
git checkout
```

Reviewing history: git log

Tracking down changes: git diff

Seeing old versions: `git show`

Going back in time: git checkout

... a great system for
archiving the data created
in (experimental) projects.

Git is not...

... ideal for storing bulky
data.

Git is not...

... quite as helpful for binary files as for text files.

Git is not...

... a golden bullet for
collaborating on written
works.