

git(hub)

Gijs Molenaar
<http://pythonic.nl>

Who Am I

Gijs Molenaar



Scientific Software Engineer in NL

Software engineer / PhD student in SA

MSc Artificial Intelligence



@gijzelaerr

A STORY TOLD IN FILE NAMES:

Location: C:\user\research\data

Filename	Date Modified	Size	Type
data_2010.05.28_test.dat	3:37 PM 5/28/2010	420 KB	DAT file
data_2010.05.28_re-test.dat	4:29 PM 5/28/2010	421 KB	DAT file
data_2010.05.28_re-re-test.dat	5:43 PM 5/28/2010	420 KB	DAT file
data_2010.05.28_calibrate.dat	7:17 PM 5/28/2010	1,256 KB	DAT file
data_2010.05.28_huh??.dat	7:20 PM 5/28/2010	30 KB	DAT file
data_2010.05.28_WTF.dat	9:58 PM 5/28/2010	30 KB	DAT file
data_2010.05.29_aaarrgh.dat	12:37 AM 5/29/2010	30 KB	DAT file
data_2010.05.29_#\$_*&!!.dat	2:40 AM 5/29/2010	0 KB	DAT file
data_2010.05.29_crap.dat	3:22 AM 5/29/2010	437 KB	DAT file
data_2010.05.29_notbad.dat	4:16 AM 5/29/2010	670 KB	DAT file
data_2010.05.29_woohoo!!.dat	4:47 AM 5/29/2010	1,349 KB	DAT file
data_2010.05.29_USETHISONE.dat	5:08 AM 5/29/2010	2,894 KB	DAT file
analysis_graphs.xls	7:13 AM 5/29/2010	455 KB	XLS file
ThesisOutline!.doc	7:26 AM 5/29/2010	38 KB	DOC file
Notes_Meeting_with_ProfSmith.txt	11:38 AM 5/29/2010	1,673 KB	TXT file
JUNK...	2:45 PM 5/29/2010		Folder
data_2010.05.30_startingover.dat	8:37 AM 5/30/2010	420 KB	DAT file

Type: Ph.D Thesis Modified: too many times

Copyright: Jorge Cham

www.phdcomics.com

Why?

- History management
- Structure code
- Backups
- **Collaboration**
- Enables Temporary / exploratory work

the basics

AboutSuperTextDialog.py (~/.super_text/python) - gedit

File Edit View Search Tools Documents Help Ctags

New Open Save Print... Undo Redo Cut Copy Paste Find Replace

AboutSuperTextDialog.py SuperTextPreferencesDialog.py SuperTextWindow.py

```
import sys
import gtk

class AboutSuperTextDialog(gtk.AboutDialog):
    __gtype_name__ = "AboutSuperTextDialog"

    def __init__(self):
        """__init__ - This function is typically not called directly.
        Creation of a AboutSuperTextDialog requires rereading the associated ui
        file and parsing the ui definition externally,
        and then calling SuperTextWindow.finish_initializing().

        Use the convenience function NewAboutSuperTextDialog to create
        NewAboutSuperTextDialog objects.

        """
        pass

    def finish_initializing(self, builder):
        """finish_initializing should be called after parsing the ui definition
        and creating a AboutSuperTextDialog object with it in order to finish
        initializing the start of the new AboutSuperTextDialog instance.

        """
        #get a reference to the builder and set up the signals
        self.builder = builder
        self.builder.connect_signals(self)

        #code for other initialization actions should be added here

def NewAboutSuperTextDialog():
    """NewAboutSuperTextDialog - returns a fully instantiated
    AboutSuperTextDialog object. Use this function rather than
    creating a AboutSuperTextDialog instance directly.

    """
    builder = gtk.Builder()
    builder.add_from_file("../ui/AboutSuperTextDialog.ui")
    dialog = builder.get_object("about_super_text_dialog")
    dialog.finish_initializing(builder)
    return dialog
```

Python Tab Width: 4 Ln 41, Col 18 INS

git init

```
$ mkdir helloworld && cd helloworld
```

```
$ git init
```

```
Initialized empty Git repository in /Users/gijs/helloworld/.git/
```

```
$ ls -a
```

```
.  ..  .git
```

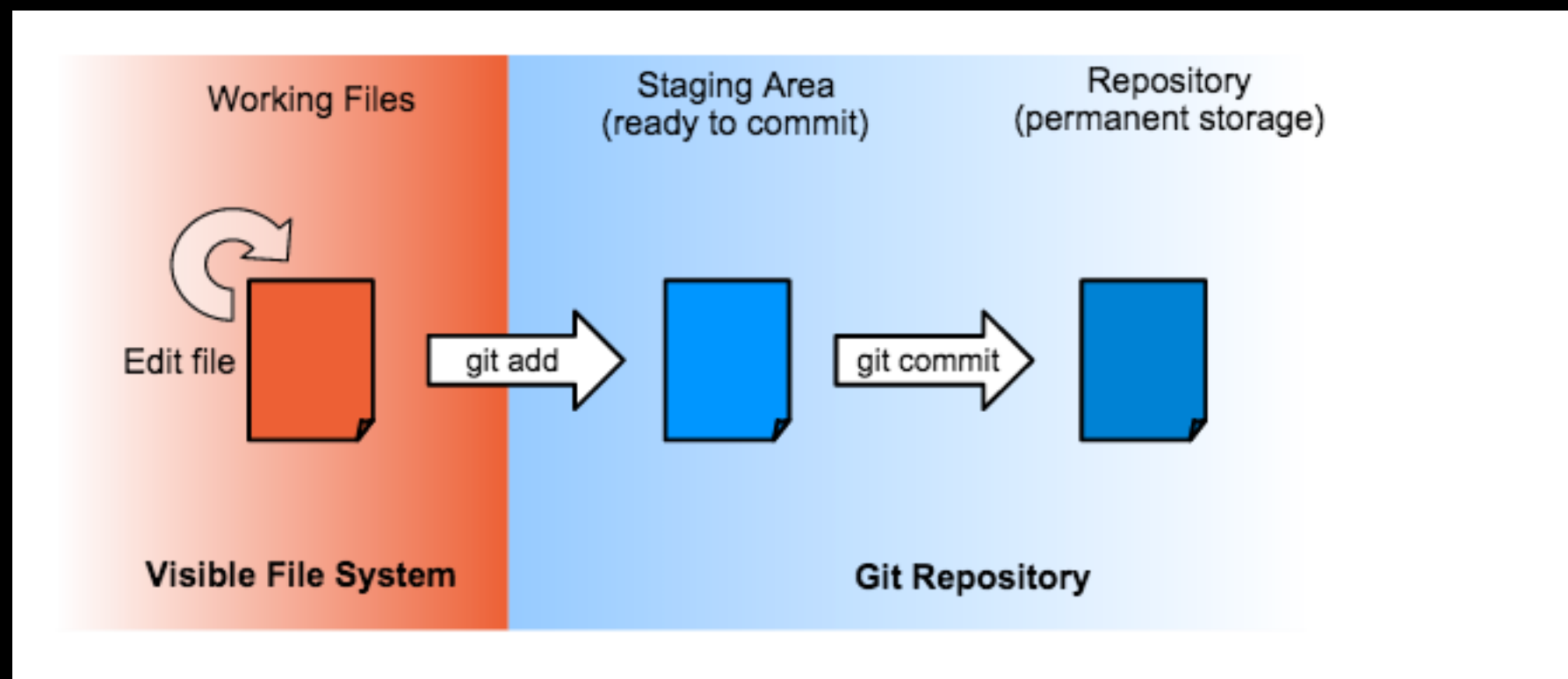
```
$ git status
```

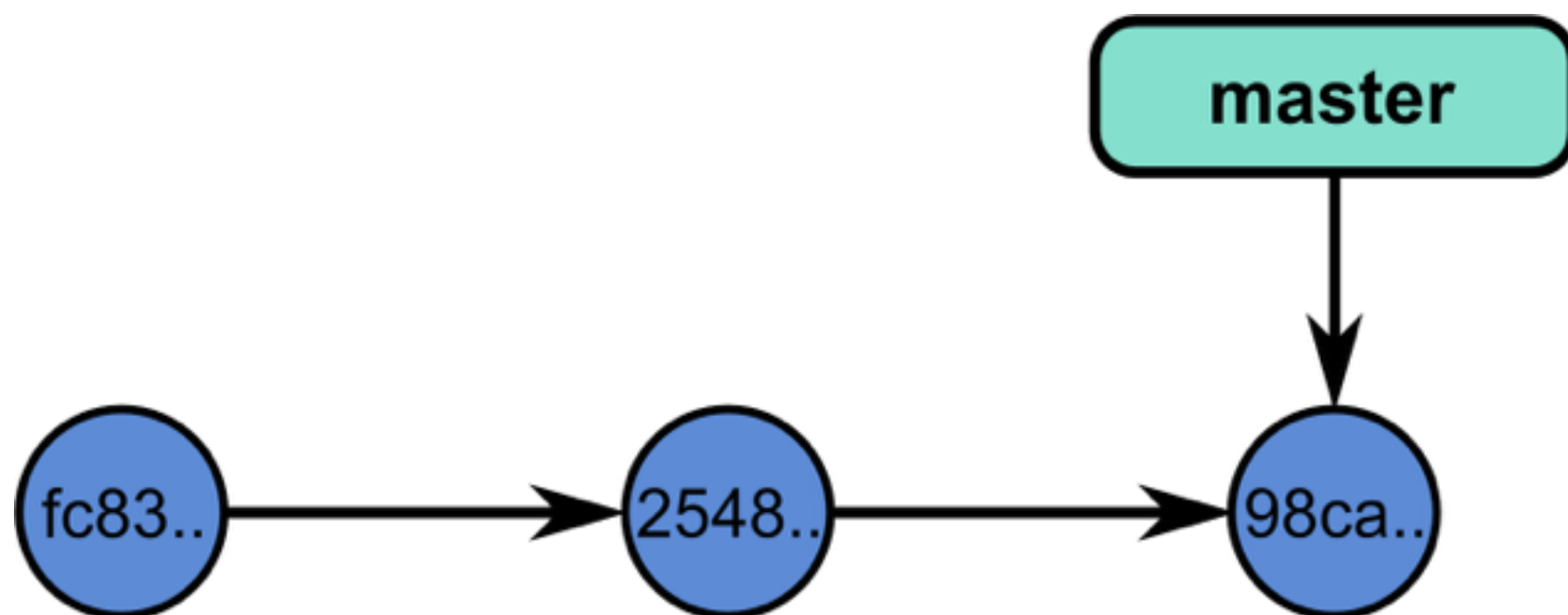
```
On branch master
```

```
Initial commit
```

```
nothing to commit (create/copy files and use "git add" to track)
```


git add & commit







6ff87c4664981e43976257
91c8ea3bbb5f2279a3

SHA1
&
parent

```
$ touch hi
```

```
$ git add hi
```

```
$ ls -a
```

```
.    ..    .git hi
```

```
$ git commit -a -m "first commit"
```

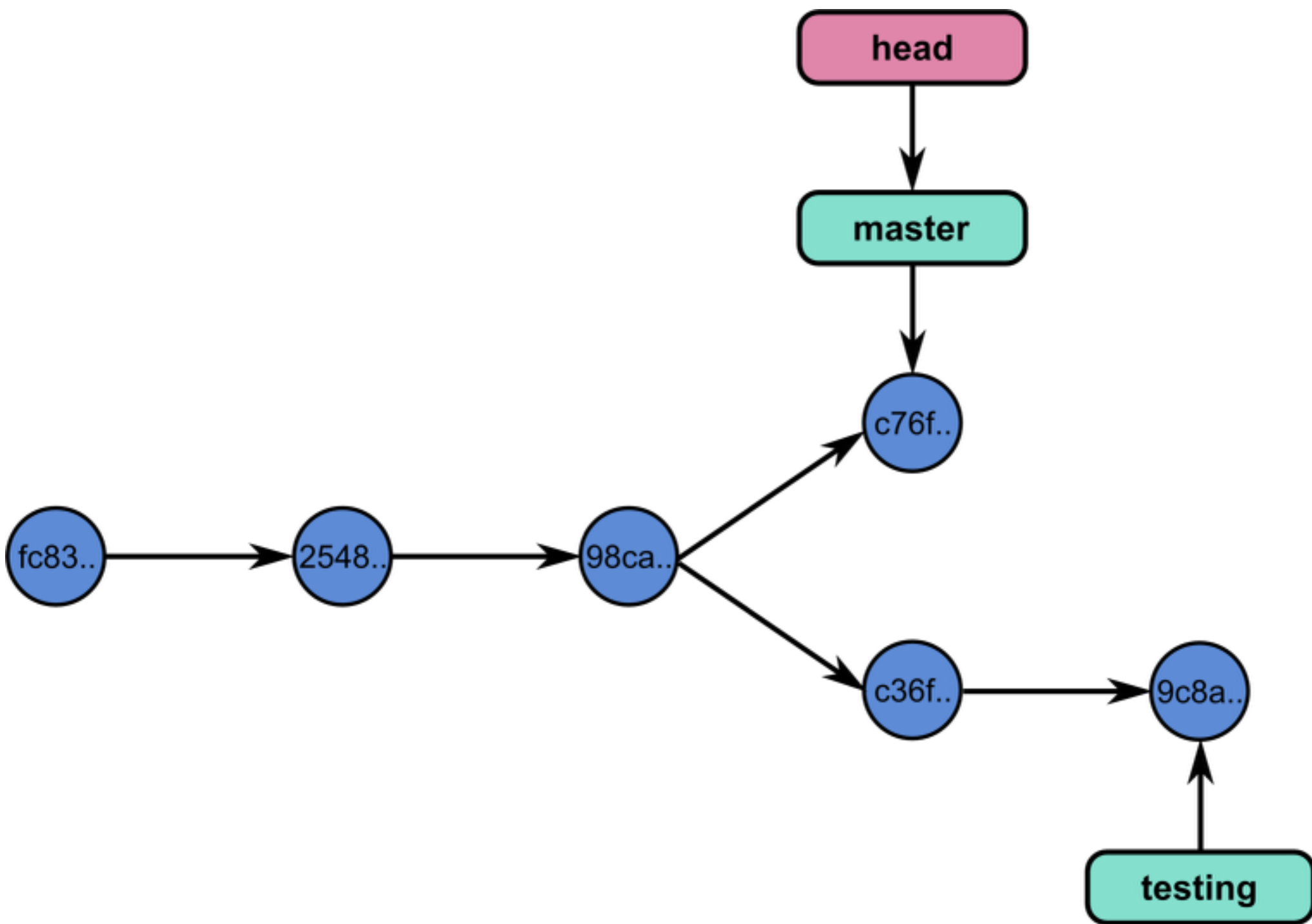
```
[master (root-commit) f53feb8] first commit  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 hi
```

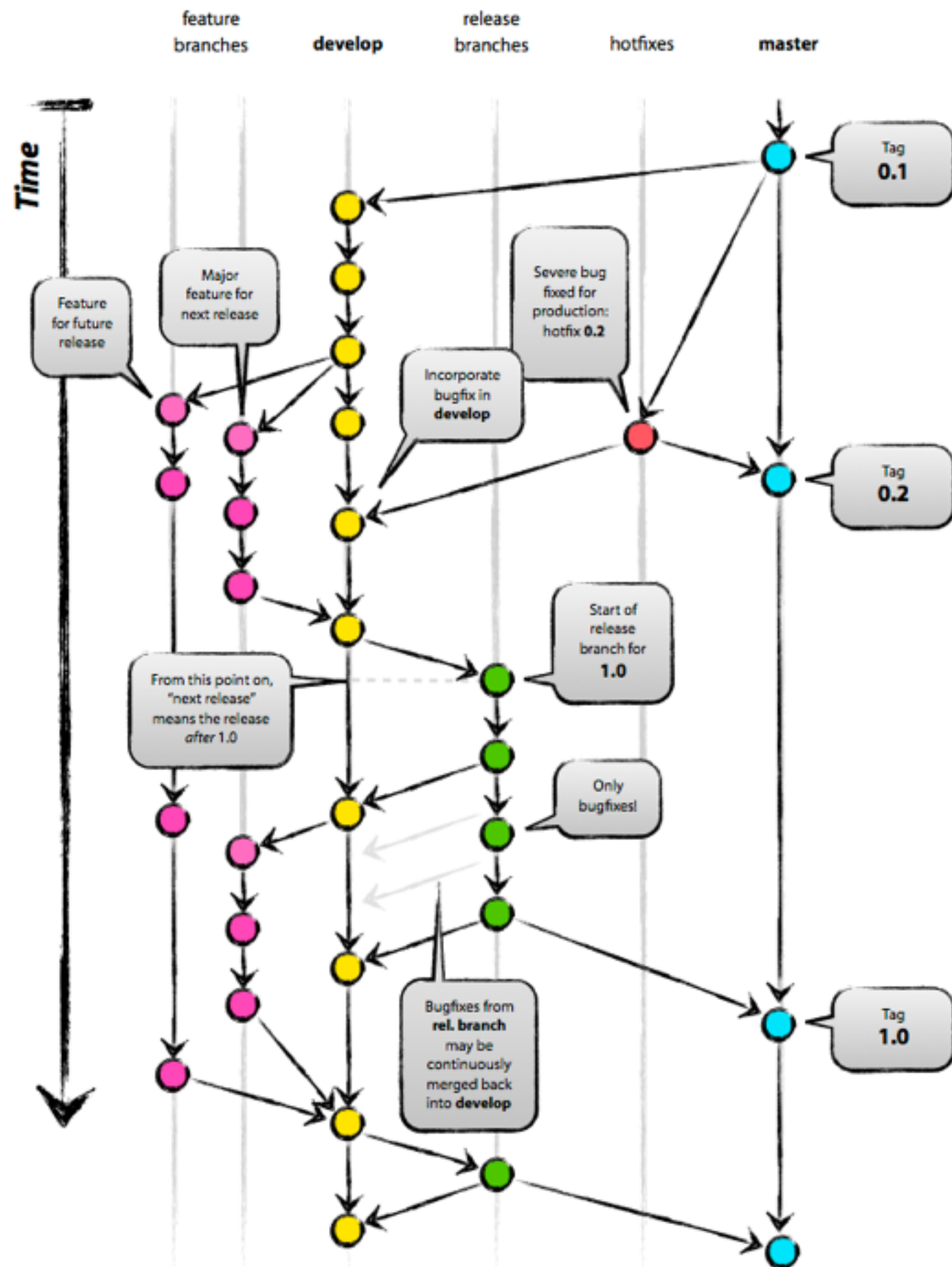
```
$ git status
```

```
On branch master
```

```
nothing to commit, working directory clean
```

branches





github

GitHub

Gijs Molenaar

GitHub, Inc. [US]https://github.com

Search GitHub

ExploreGistBlogHelp

gijzelaerr

News FeedPull RequestsIssues

★

chapmanb

starred

morrislab/phylowgs

10 minutes ago

16 minutes ago

mauch

pushed to master at ska-sa/katsdppipelines

2f4f37d

Modify call to TelescopeSTate to use endpoint rather than host

18 minutes ago

mauch

pushed to dockerise at ska-sa/katsdppipelines

0ae44ed

Add netifaces to list of pip installs.

34 minutes ago

jmanley

pushed to master at ska-sa/corr2

d5b9226

Detail added: debug message for SPEAD errors.

an hour ago

LauraRichter

pushed to master at ska-sa/katsdppipelines

62e3bce

Removed calsolution.py - moved into calprocs.py

be7ba10

Modifications to reduction.py to apply solutions

2 more commits »

an hour ago

mauch

pushed to dockerise at ska-sa/katsdppipelines

ad706c0

Add dockerfiles for install of Obit, aips and the obit pipeline.

Git 2.3 has been released

Here's our take on the best features in the newest Git release

View 6 new broadcasts

Repositories you contribute to

ska-sa/rodrigues	1 ★
transientskp/banana	1 ★
ska-sa/meqtrees	1 ★
transientskp/tkp	3 ★
radio-astro/docker-images	2 ★

Your repositories58

+ New repository

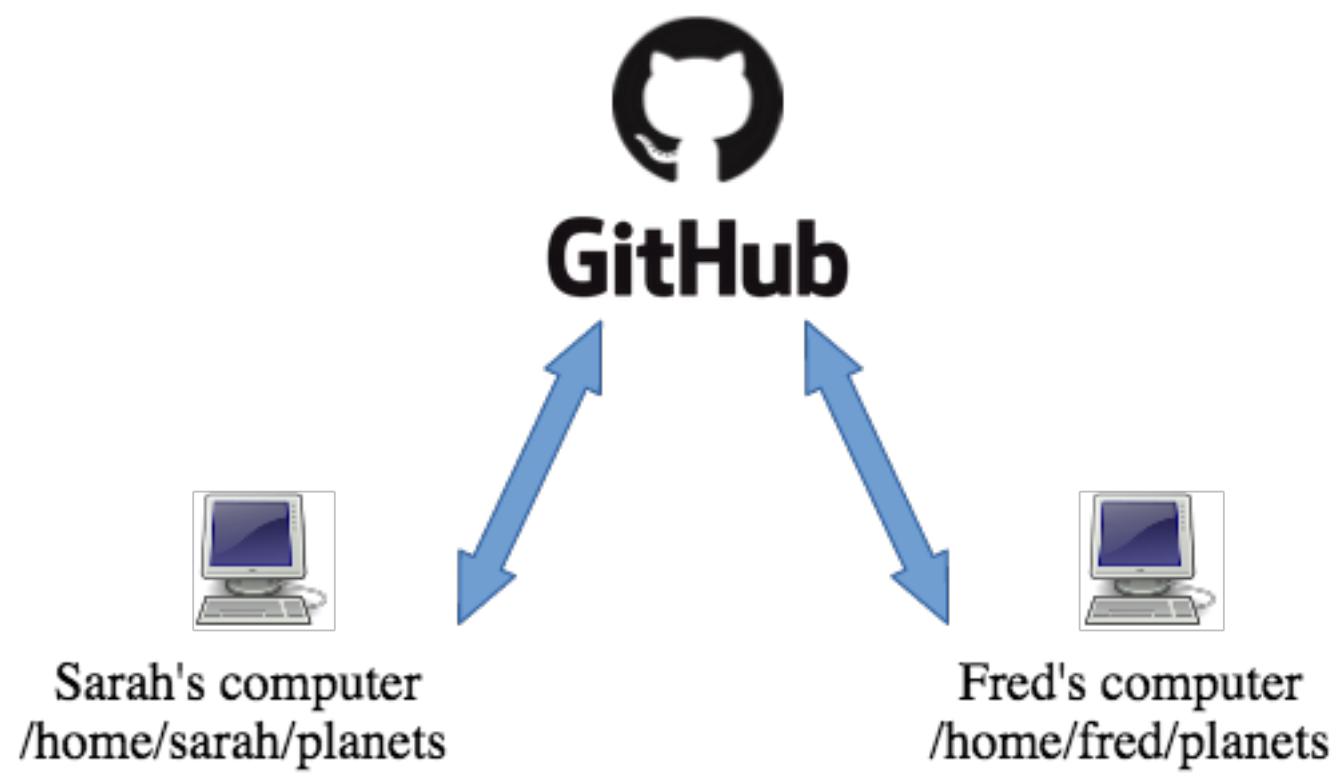
Find a repository...

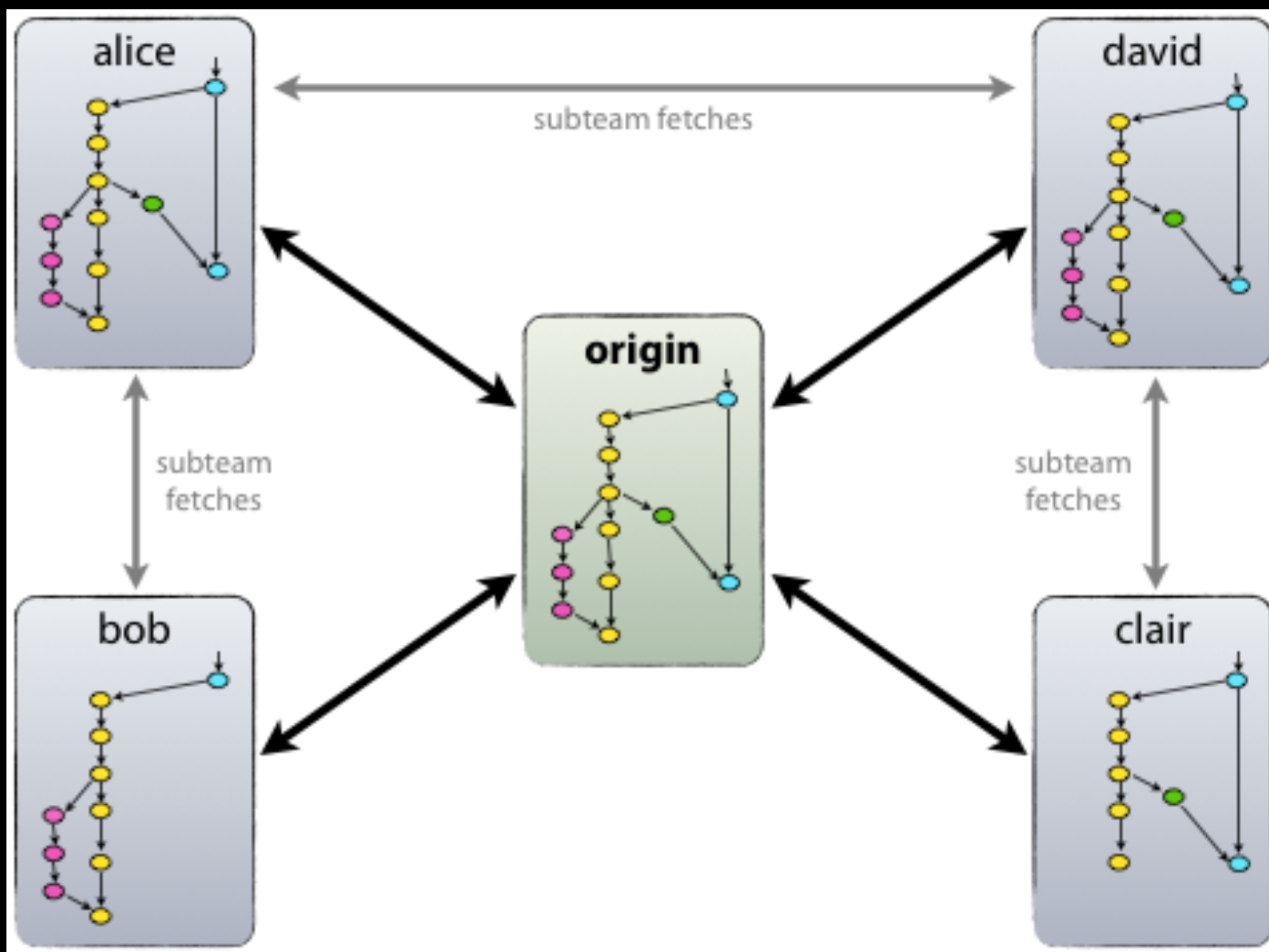
AllPublicPrivateSourcesForks

meqtrees-timba

sqlalchemy-monetdb

python-monetdb





merging

Cold and dry, bu
The two moons ma
But the Mummy wi



Cold and dry, bu
The two moons ma
But the Mummy wi
This line added

Cold and dry, bu
The two moons ma
But the Mummy wi
We added a diffe



?

When not to use github

- Changing binary data, +5 MB

<http://software-carpentry.org/v5/novice/git/>



<https://help.github.com/>



[https://gitter.im/ratt-ru/ratt-interferometry-](https://gitter.im/ratt-ru/ratt-interferometry-course)
[course](https://gitter.im/ratt-ru/ratt-interferometry-course)