

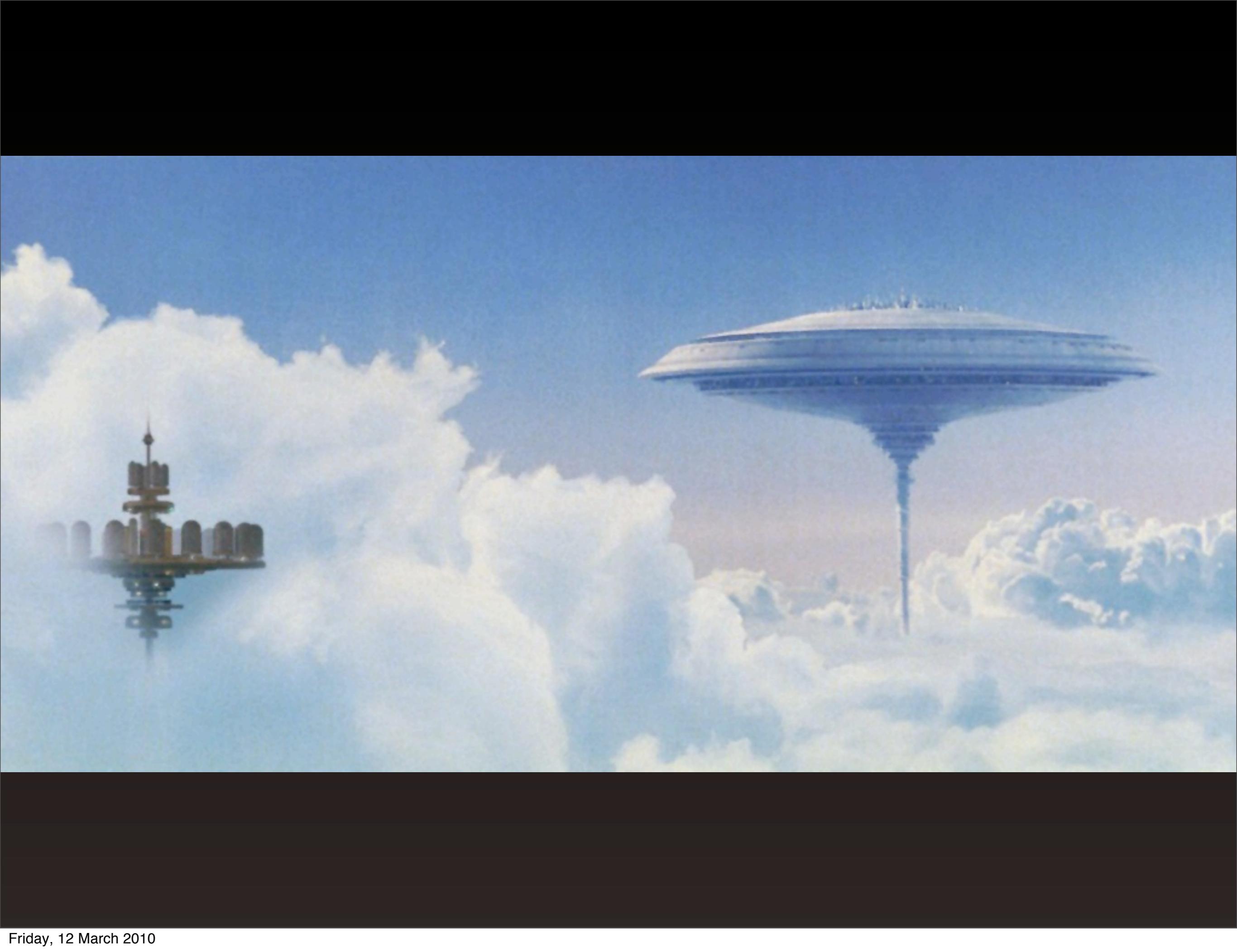
Bespin

Mozilla Labs Web Editor

<https://bespin.mozilla.com>

Joe Walker

twitter.com/joewalker



The screenshot shows a web browser window titled "Editor" with the URL "http://localhost:4020/editor/". The content of the editor is a block of JavaScript code:

```
41 var cliController = require("controller").cliController;
42 var hint = require("hint");
43
44 var diff = new diff_match_patch();
45
46 /**
47 * A really basic UI hint for when someone is entering something from a
48 * set of options, for example boolean|selection.
49 */
50 exports.optionHint = function(input, assignment, typeExt, data) {
51     var filter = assignment.value;
52
53     // How many matches do we have?
54     var matches = [];
55     data.forEach(function(option) {
56         if (!filter || option.name.substring(0, filter.length) == filter) {
57             matches.push(option);
58         }
59     }).bind(this));
60
61     // We create a list of options in all cases
62     var parent = document.createElement("div");
63     parent.setAttribute("class", "cmd_menu");
64     var list = document.createElement("ul");
65     parent.appendChild(list);
66
67     // When someone clicks on a link, this is what we prefix onto what they
68     // clicked on to get the full input they were expecting
69     var prefix = input.typed.substring(0, input.typed.length - filter.length);
70
71     if (matches.length === 0) {
72         data.forEach(function(option) {
73             var link = createListOption(prefix, option);
74             list.appendChild(link);
75         });
76
77         // So this is an error - nothing matches
78         // TODO: Implement this
79     }
80 }
```

{ }>

Done

Why?
Features
Architecture
Editor
Command Line
Sharing

vi?

emacs?

textmate?

intellij?

eclipse?

Open > Closed

Closed > Open

Interaction

Simplicity

Speed

Sharing



BIG
TIME

CommonJS

```
var editor = require("editor");
var console = require("console");

editor.clear();
console.log("Cleared the editor");
```

F5-less reloading

Reboot

Canvas

Syntax Highlighting

Completion





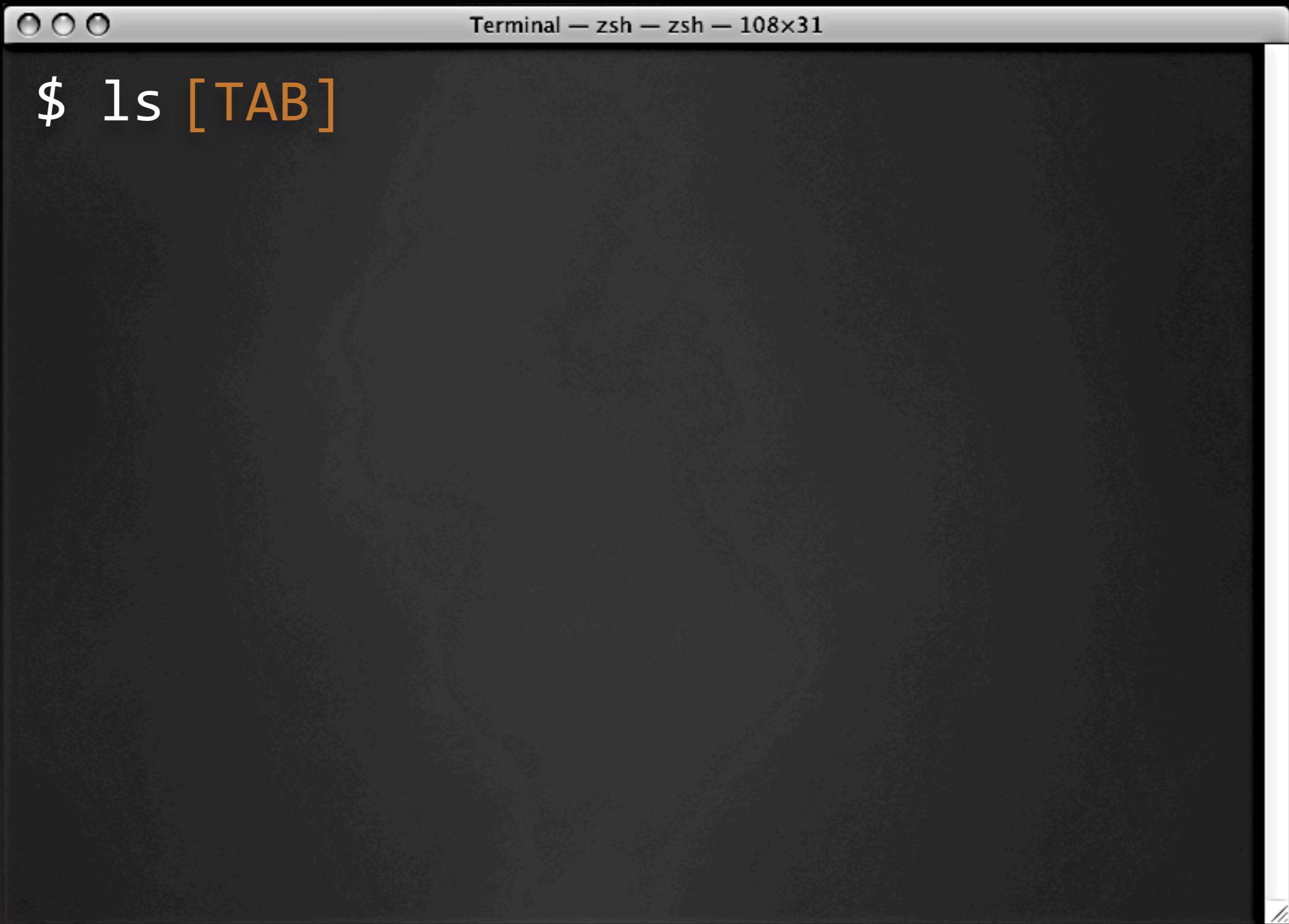
Terminal — bash — 80x24

```
Last login: Wed May 27 07:57:02 on ttys004  
konaio:~ joe$
```

Unix: Small pieces,
loosely coupled

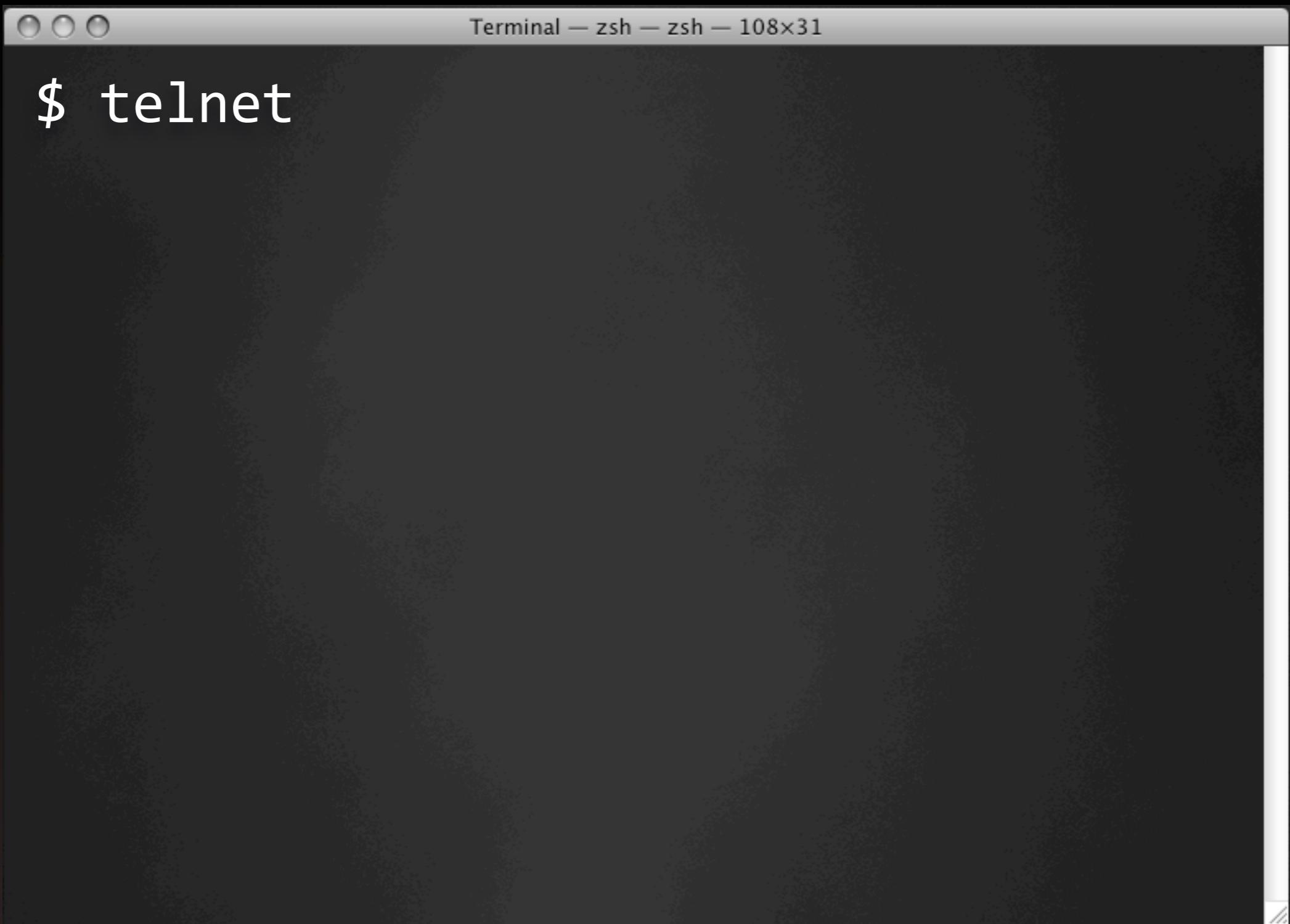


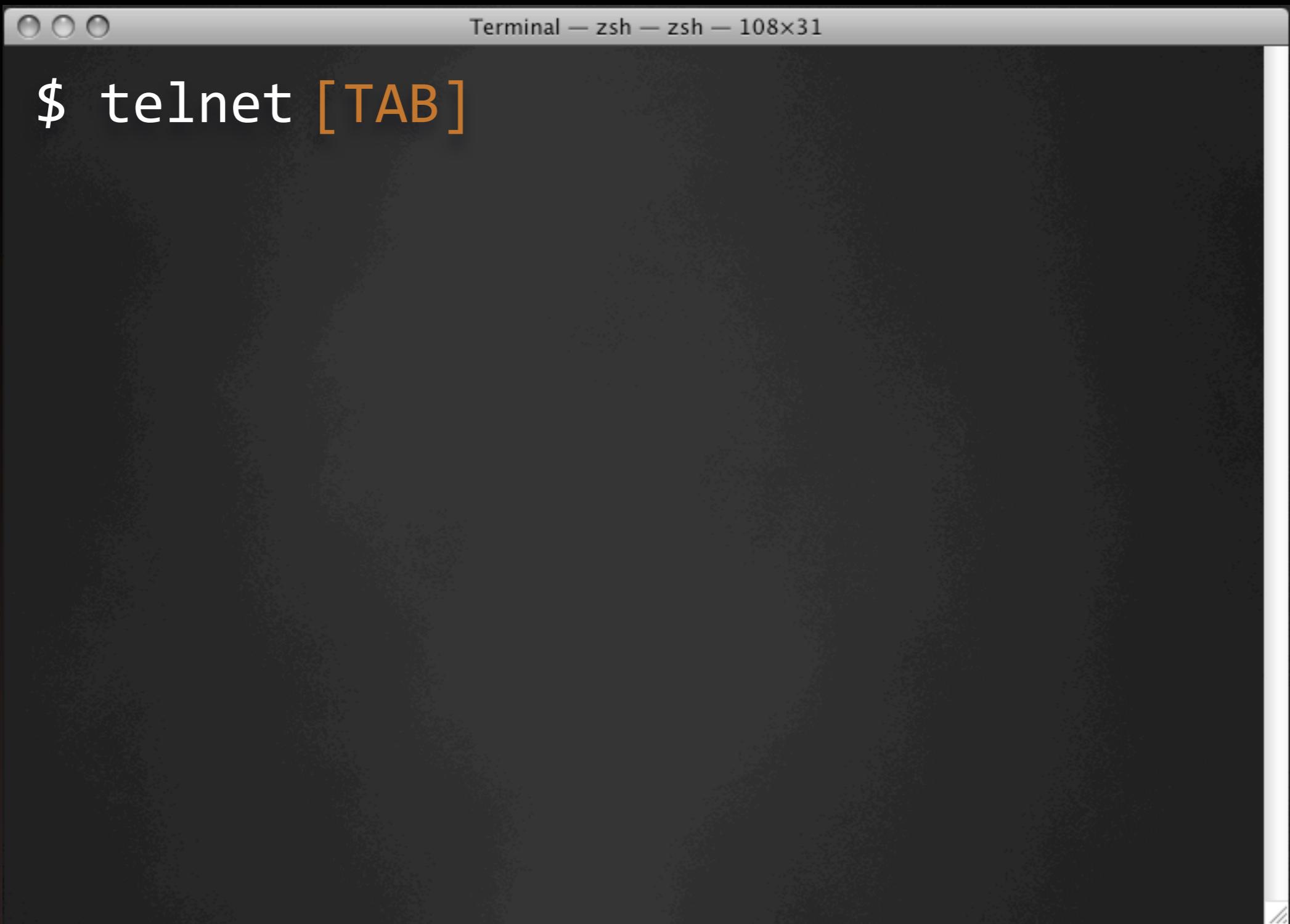




```
Terminal — zsh — zsh — 108x31  
$ ls [TAB]  
Applications/ Mesh/ Projects/  
Desktop/ Movies/ Public/  
Documents/ Music/ Sites/  
Downloads/ Parallels/ backup/  
Library/ Pictures/ bin/
```



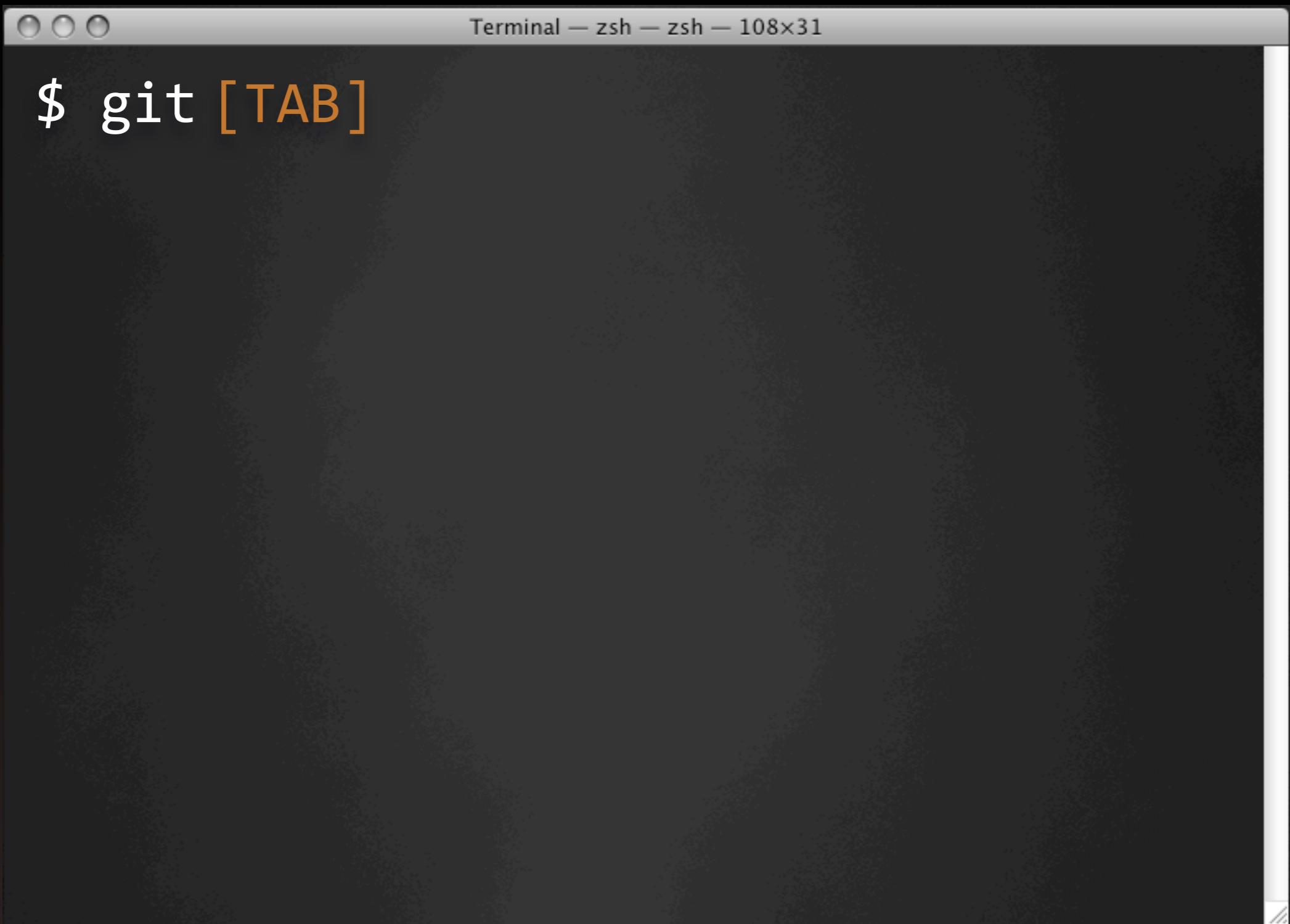




```
Terminal — zsh — zsh — 108x31  
$ telnet [TAB]  
192.168.0.1  
192.168.0.12  
download.directwebremoting.org  
download.dojotoolkit.org  
getahead.org  
hg.mozilla.com  
localhost  
people.mozilla.com  
sandbox.dojotoolkit.org  
svn.directwebremoting.org  
www.christadelphian.org
```



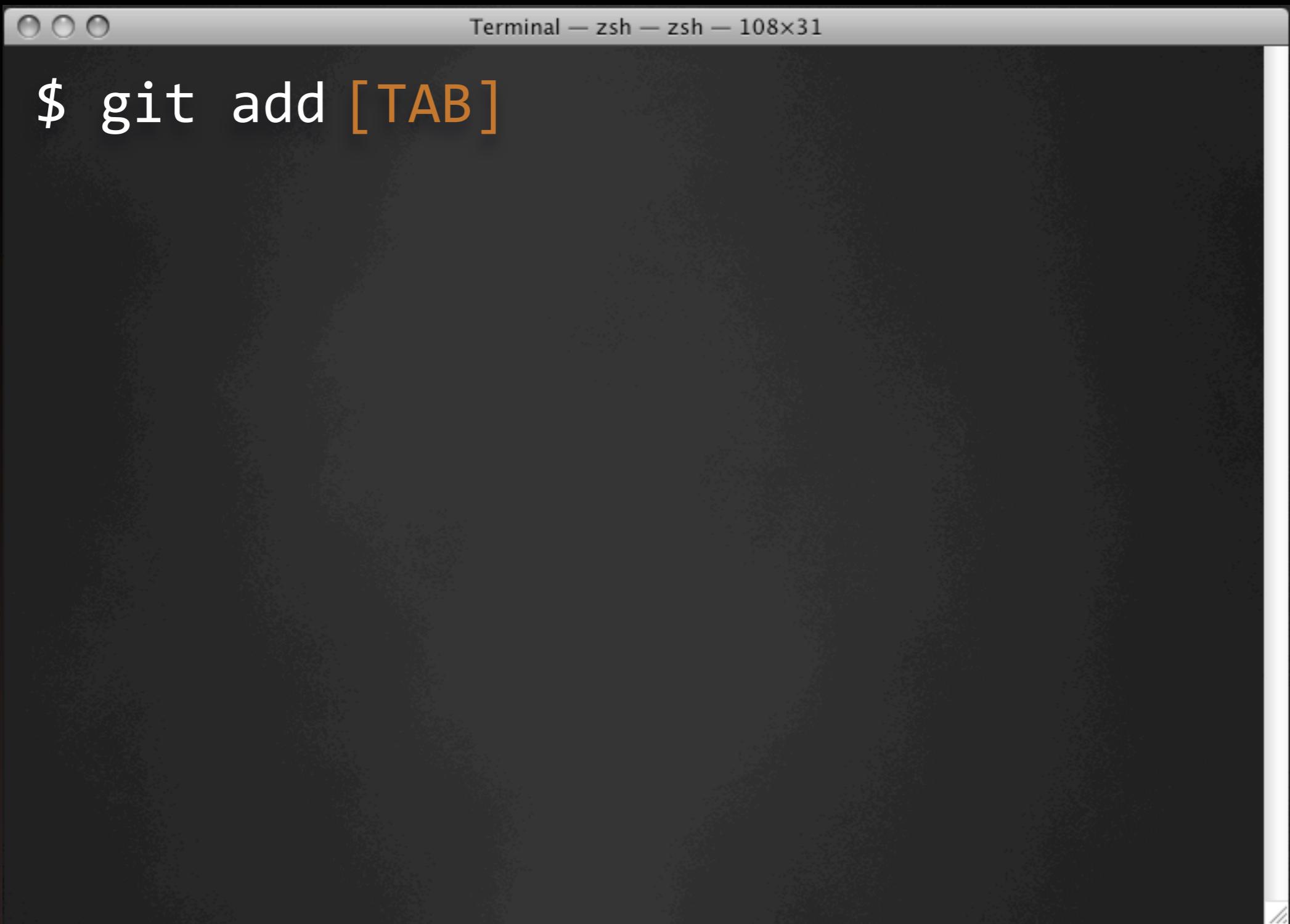


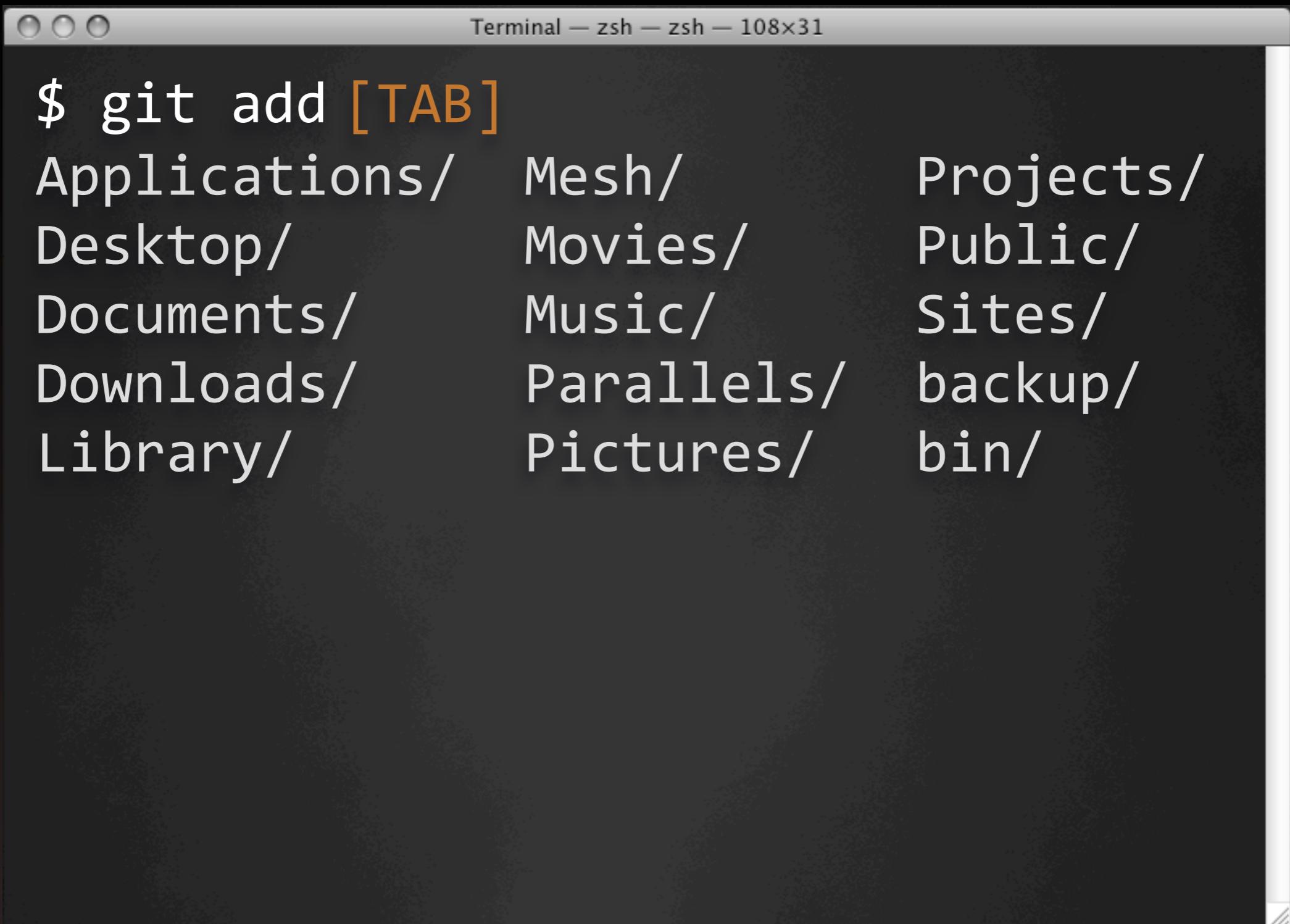


```
Terminal — zsh — zsh — 108x31  
$ git [TAB]  
add          -- add paths to the index  
am           -- apply patches from a m  
apply        -- apply patch on a git i  
bisect       -- find the change that i  
branch       -- create and show branch  
cat-file     -- provide content or typ  
checkout     -- checkout and switch to  
cherry       -- find commits not merge  
clone        -- clones a repository in  
commit       -- record changes to the  
diff         -- show changes between c
```









Bespin: Small pieces,
saner coupling

```
ep: "command",
name: "set",
params: [ {
    name: "setting",
    type: {
        name: "selection",
        pointer: "Settings:memory#getSettings"
    },
    description: "Name of the setting to display ..."
}, {
    name: "value",
    type: {
        name: "deferred",
        pointer: "Settings:memory#getTypeExt..."
    },
    description: "The new value for chosen setting",
    defaultValue: null
},
],
description: "define and show settings",
pointer: "commands#setCommand"
manual: "The set command allows you to customize how ..."
```

Keeping the good parts
Improving the bad

set

Summary

define and show settings

Synopsis

`set [setting] [value]`

Parameters

setting

The name of the setting to display or alter

value

The new value for the chosen setting

{ } > **set**

test A test setting

historyLength How many typed commands do we recall for reference?

tabstop The distance in characters between each tab

historyTimeMode Display number|date|none next to each historical instruction

minConsoleHeight The maximum size (in pixels) for the command line output area

maxConsoleHeight The minimum size (in pixels) for the command line output area

{ } > **set mm**

maxConsoleHeight The minimum size (in pixels) for the command line output area
{} > **set maxConsoleHeight**

```
{ }> vcs checkout -p *****
```

Command Line



> vcs checkout

Add Project from Source Control?

URL:

Project name:

(defaults to last part of URL path)

VCS Type:

Subversion (svn)

Authentication: None (read-only access to the remote repo)

Ok

Cancel



Click for Help

Pair programming vs. Lightweight sharing

History

Undo

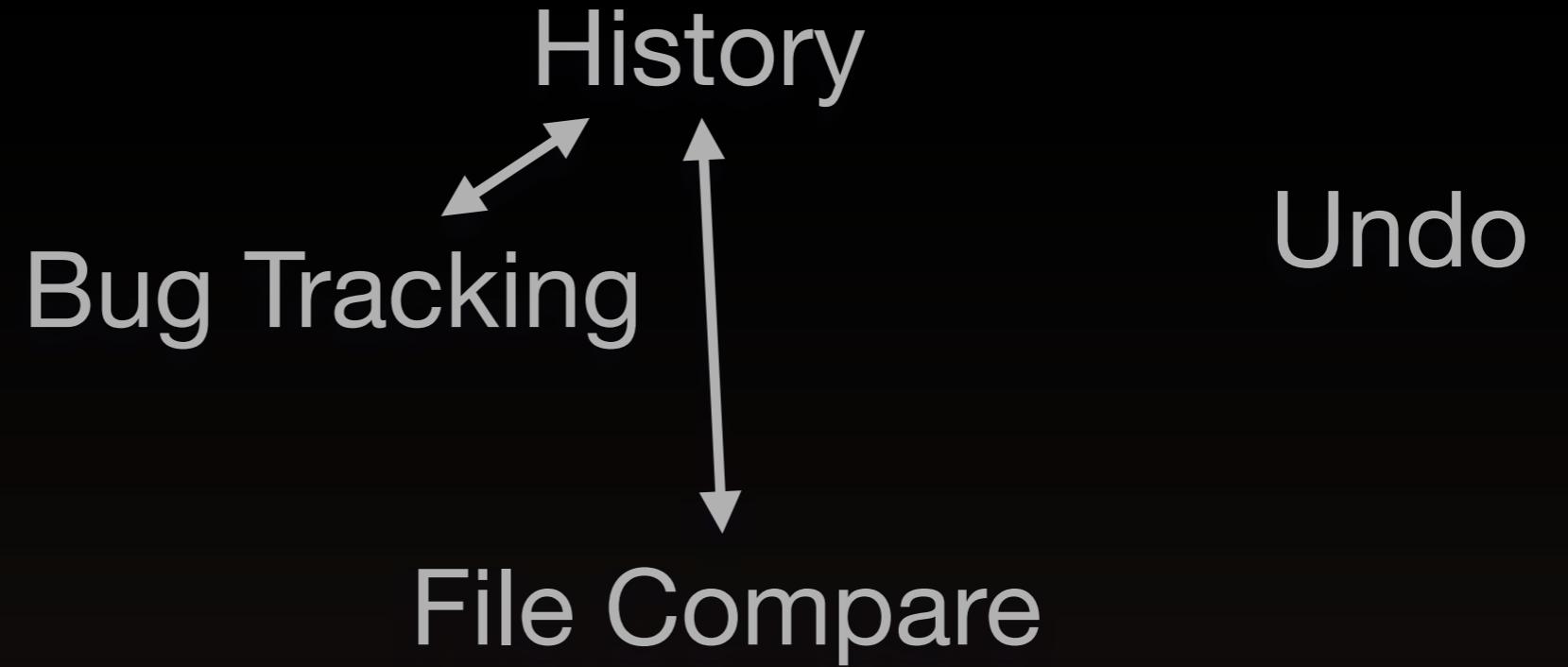
Bug Tracking

File Compare

Commit Messages

Documentation

Commit Messages



Documentation

Undo

History

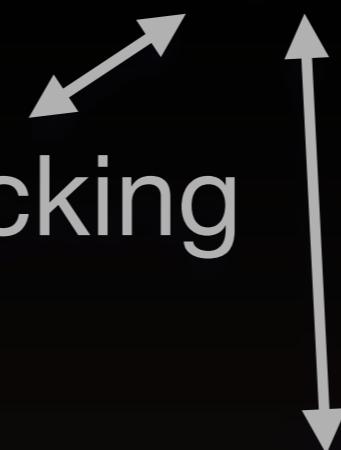
Bug Tracking

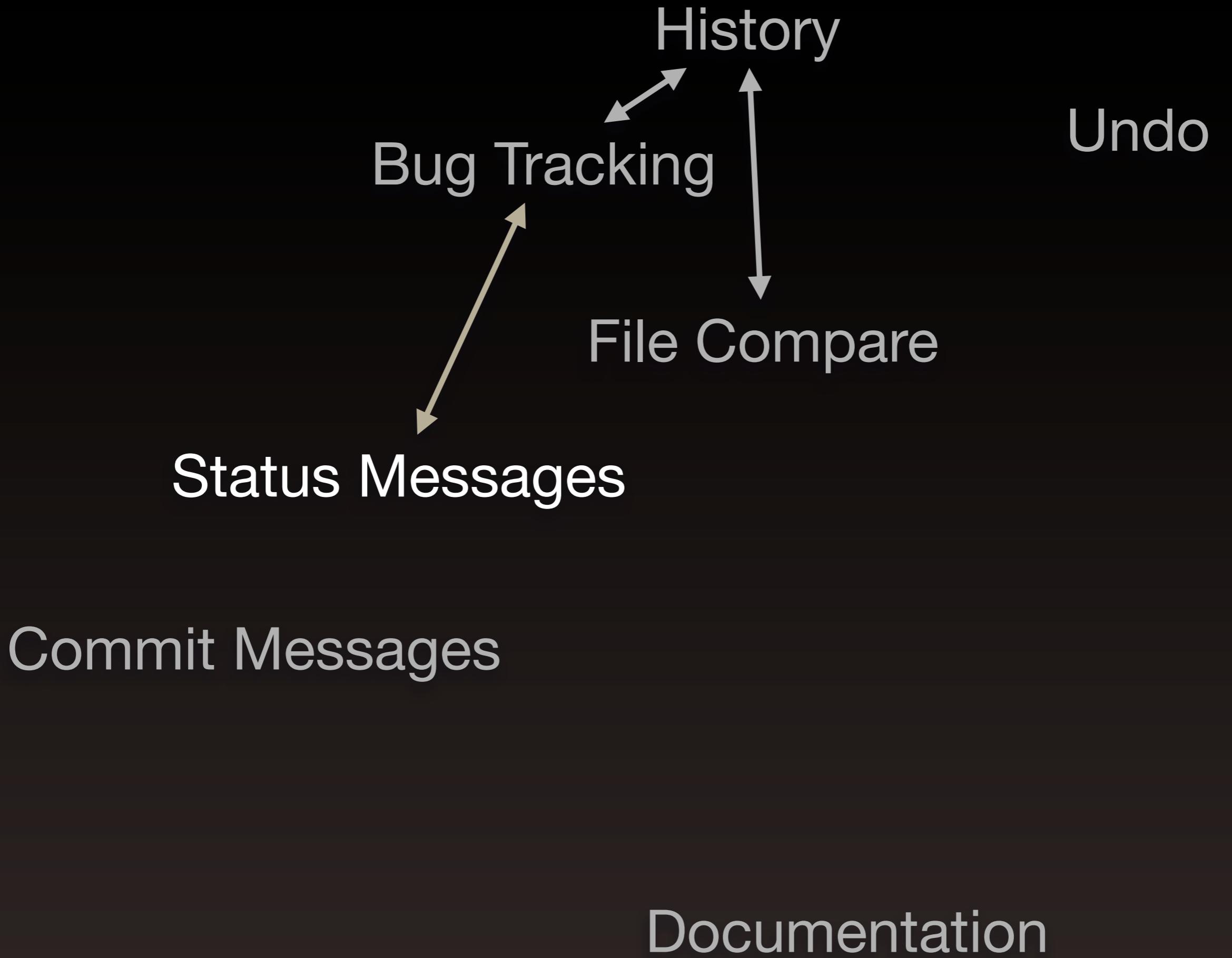
File Compare

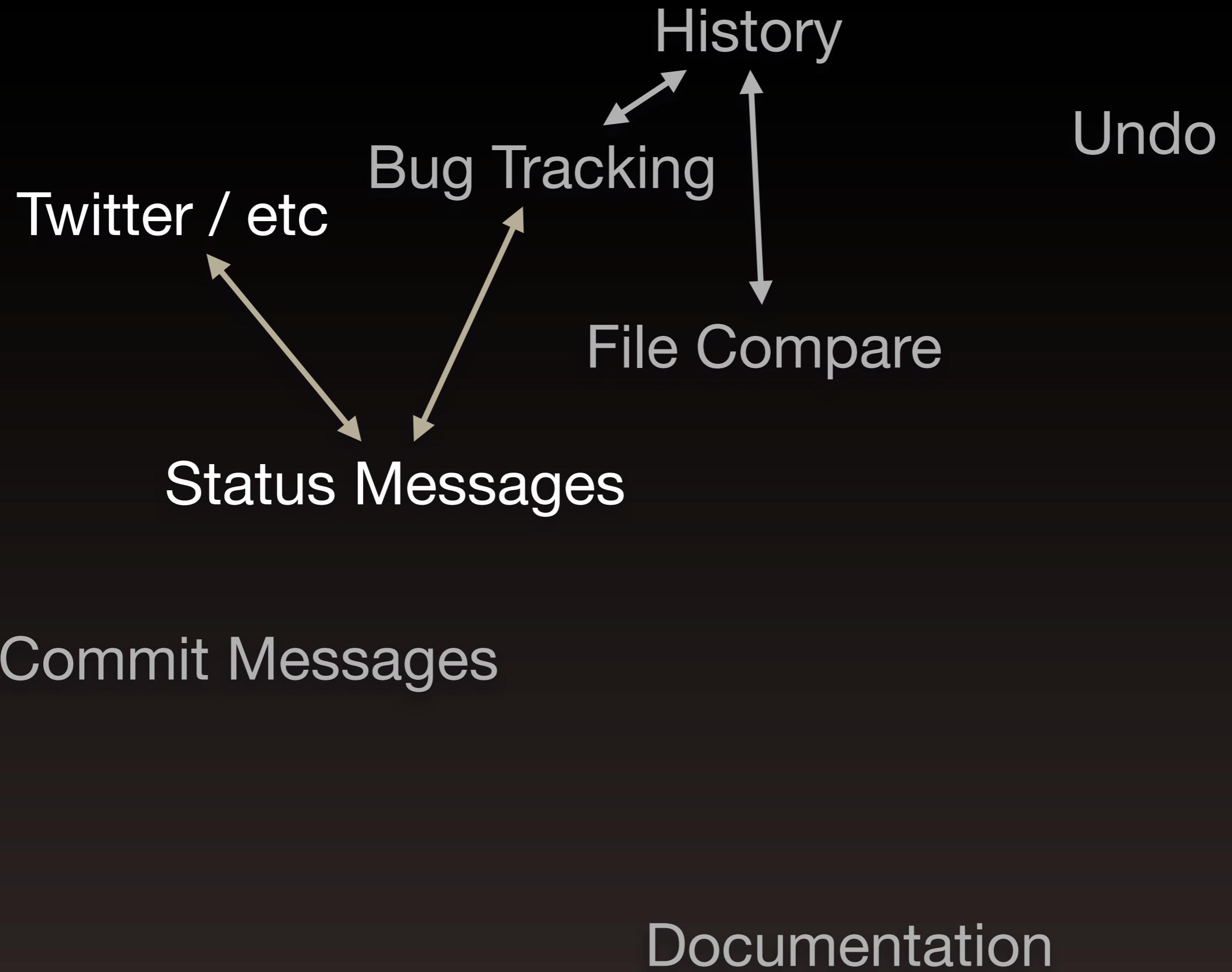
Status Messages

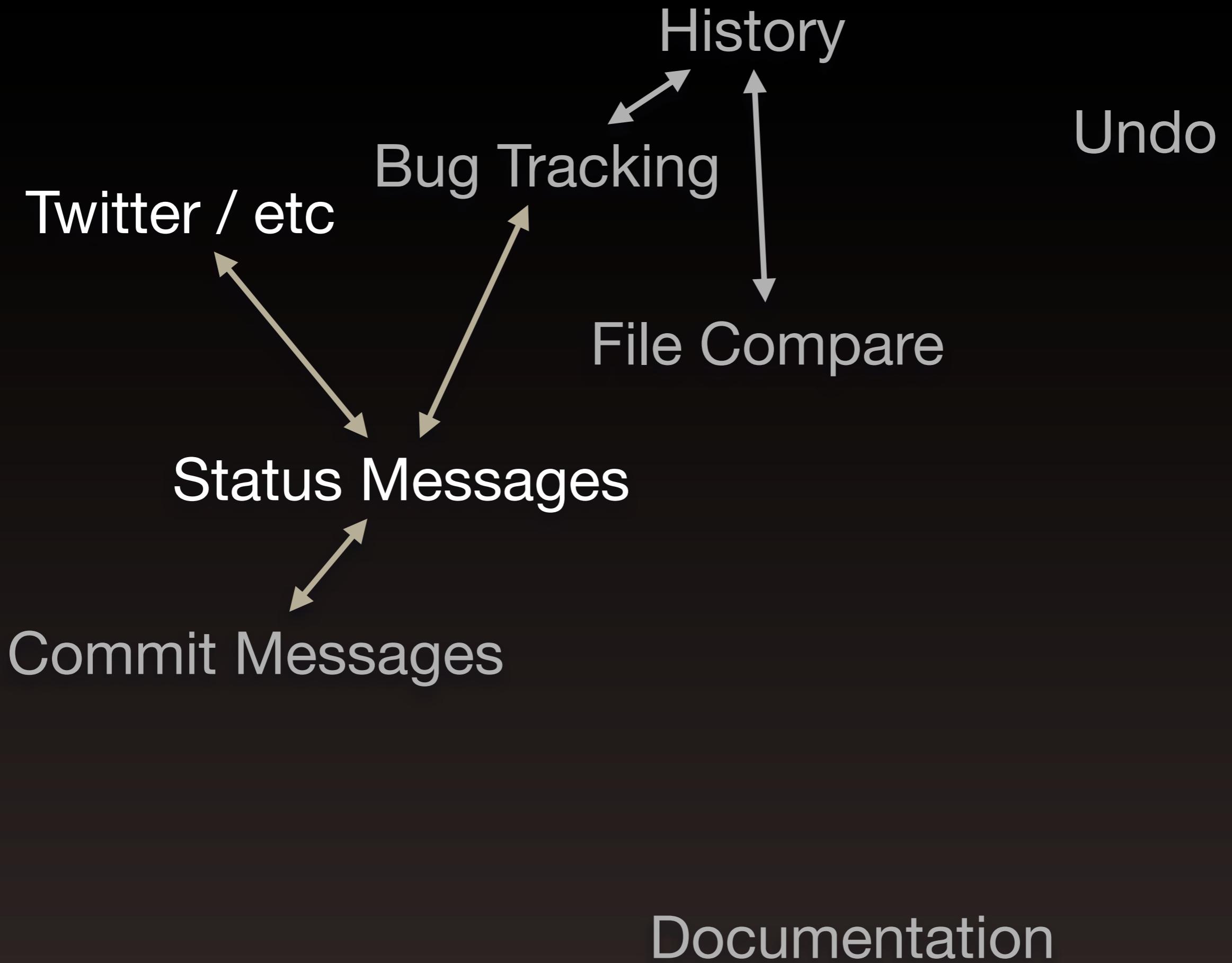
Commit Messages

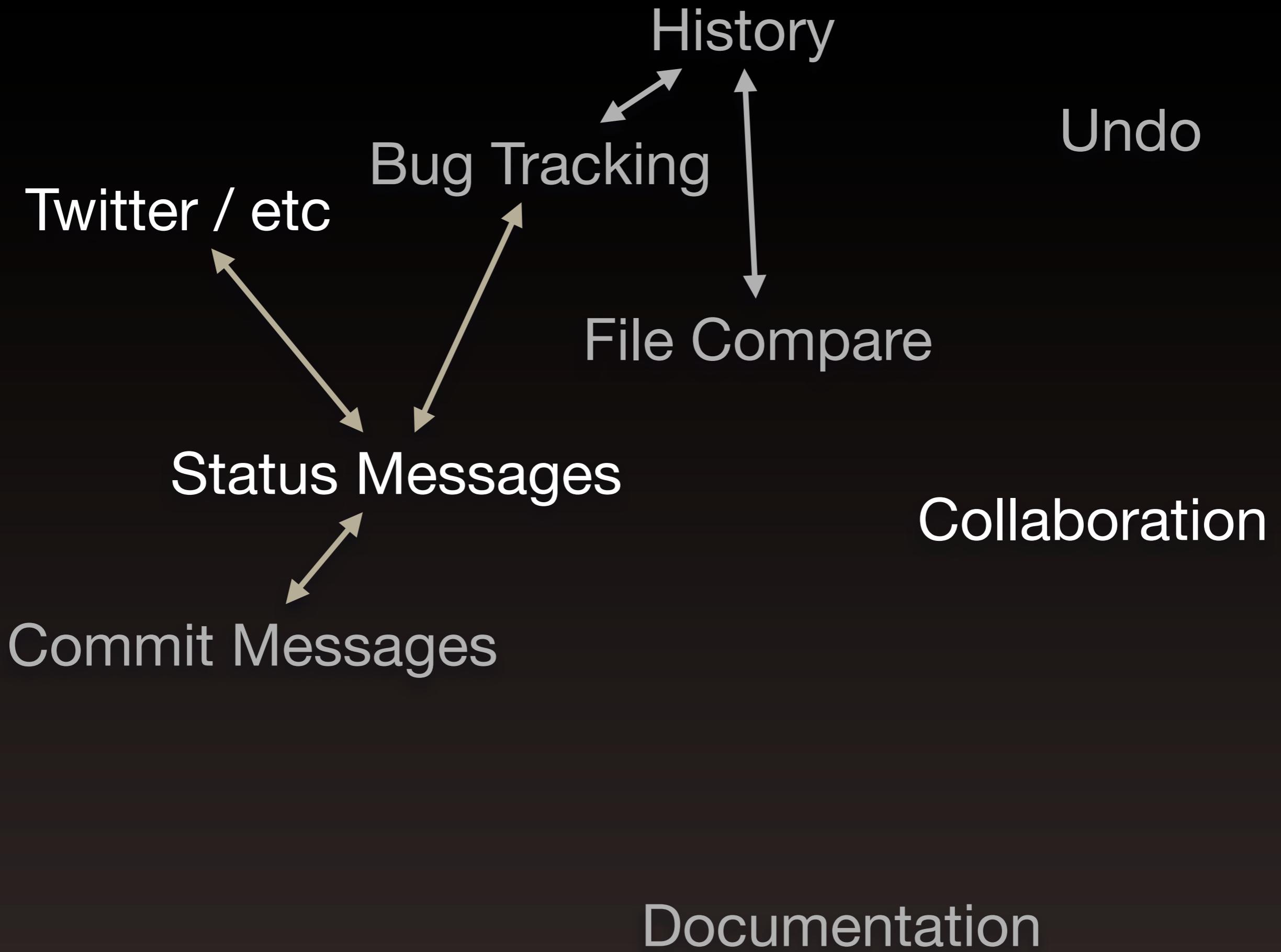
Documentation

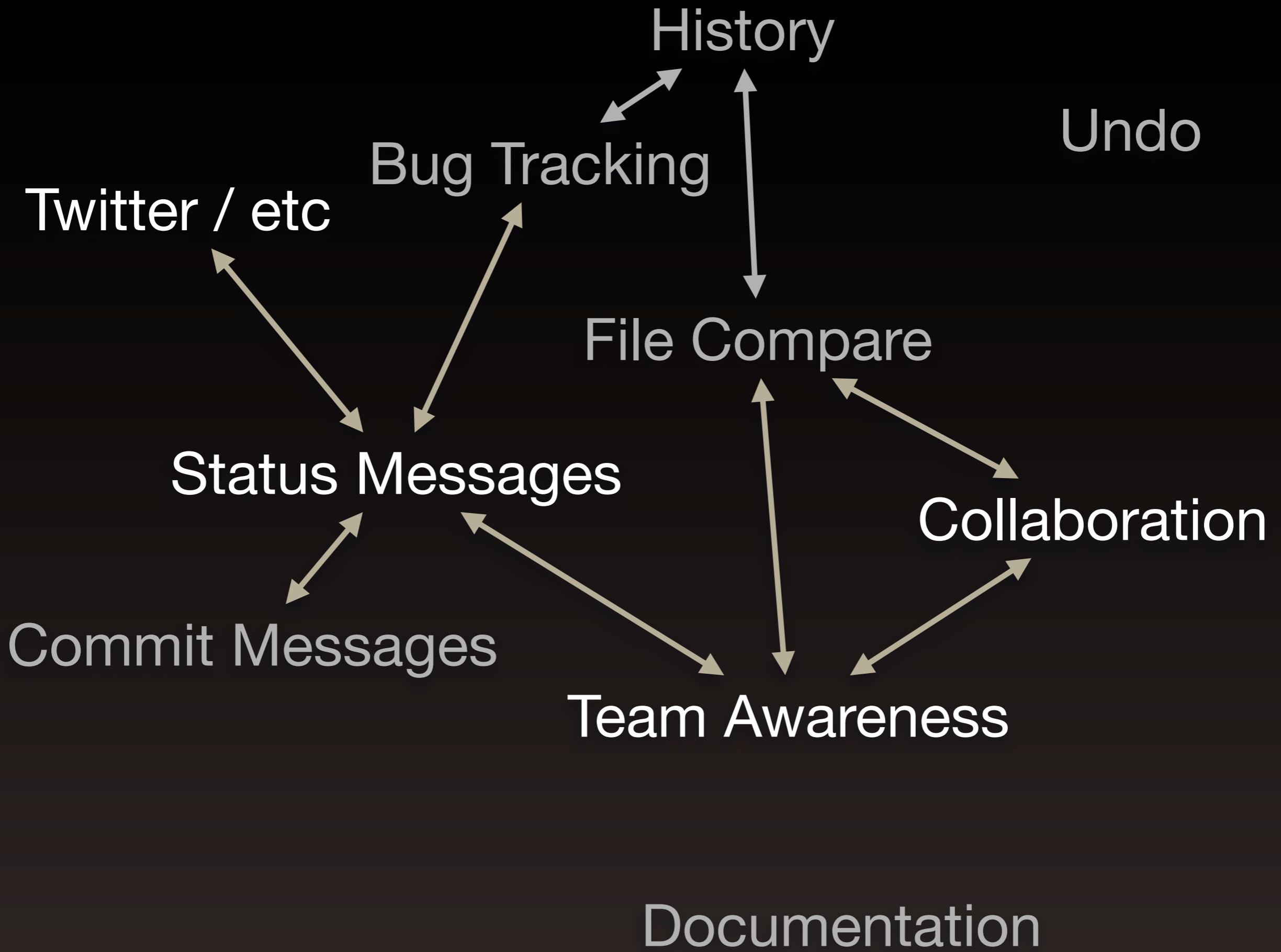


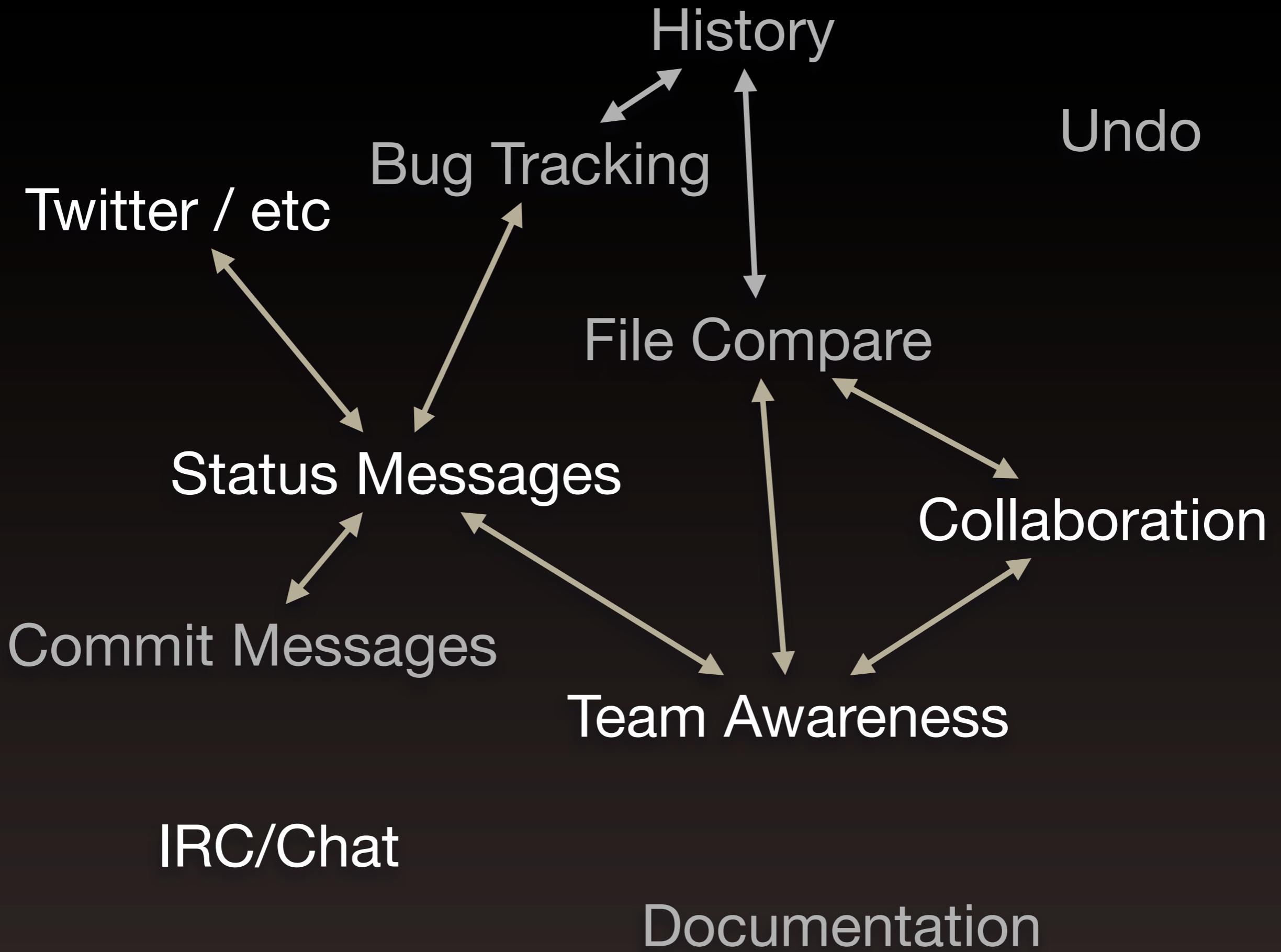


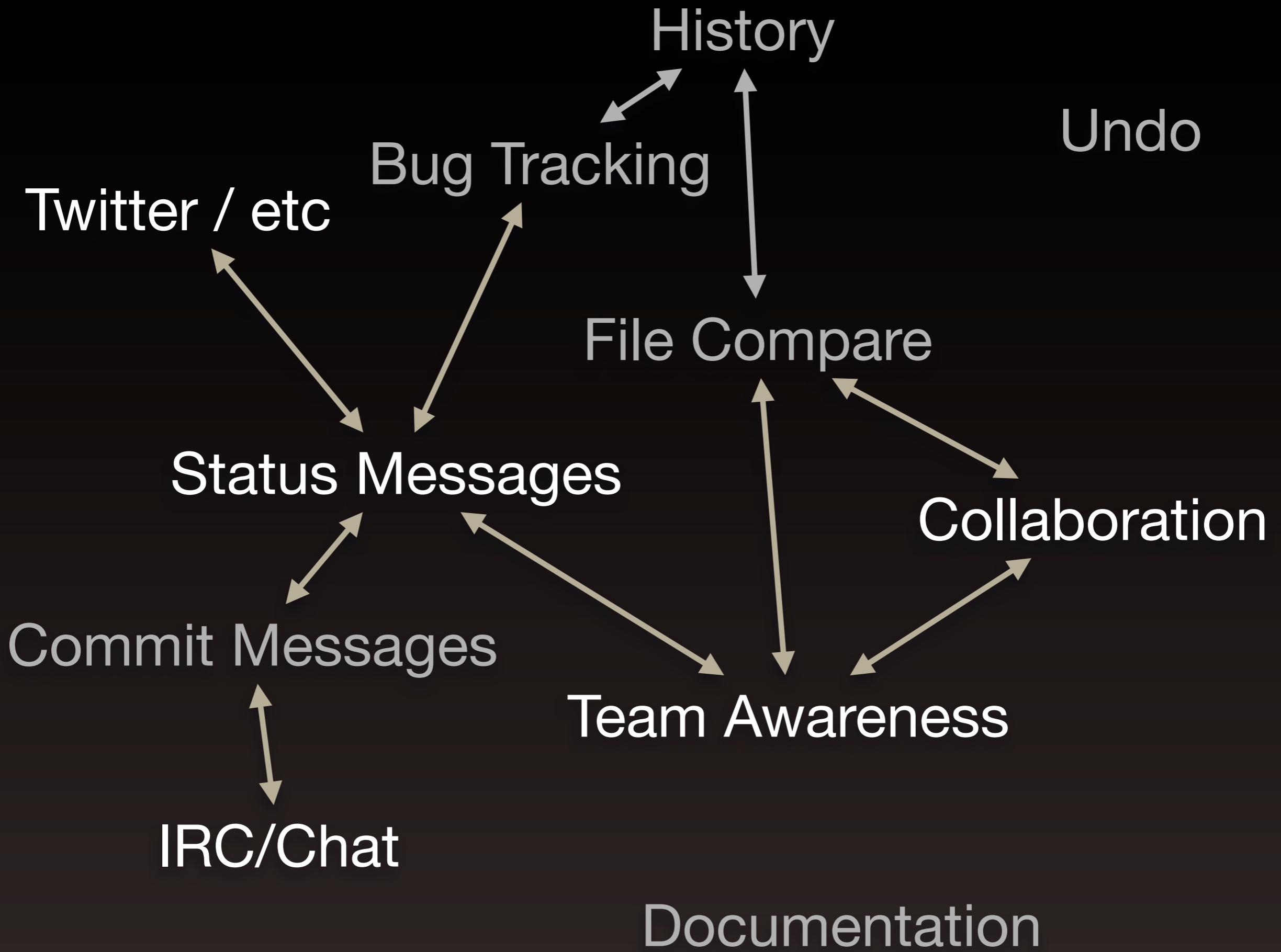


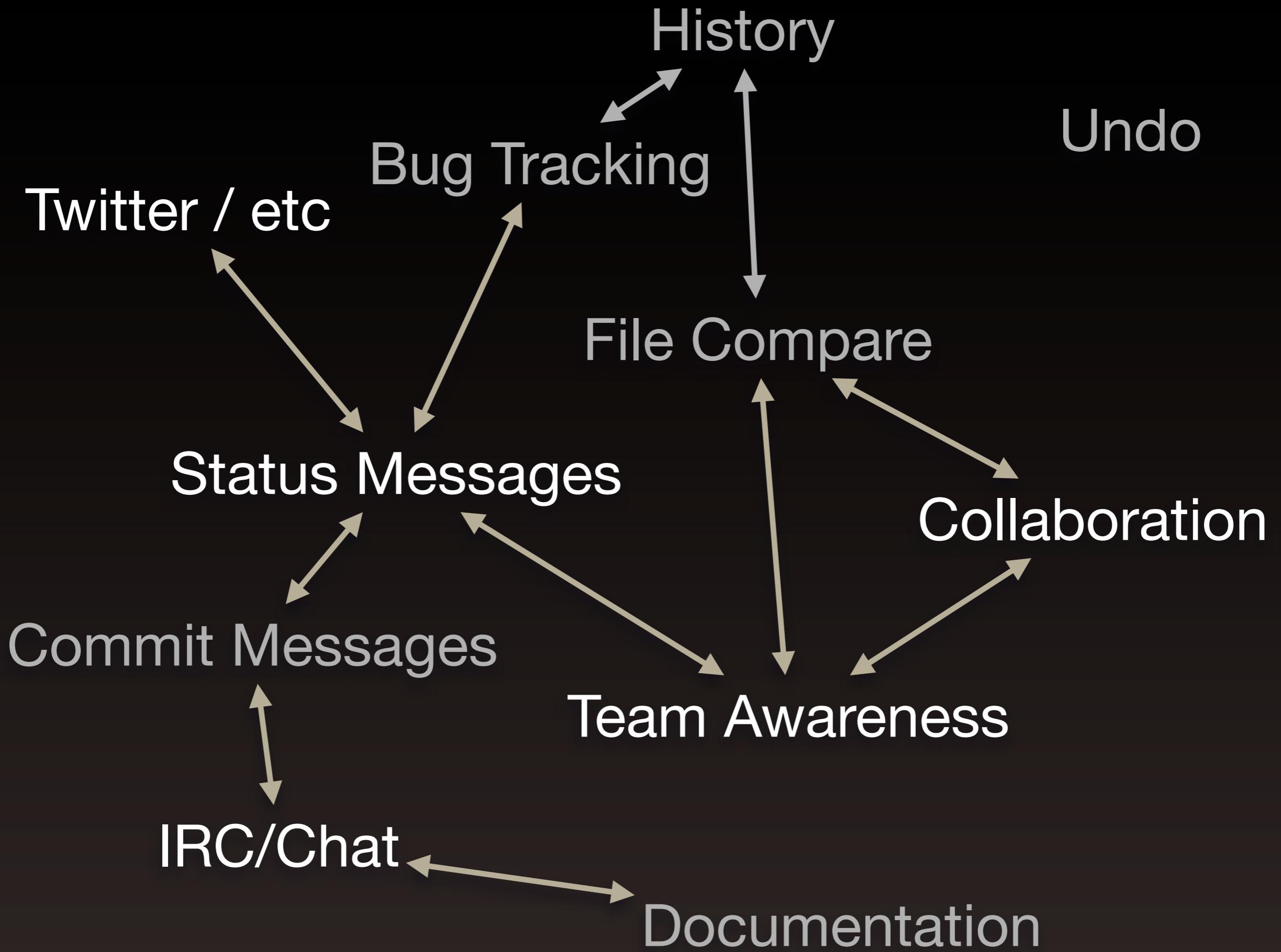


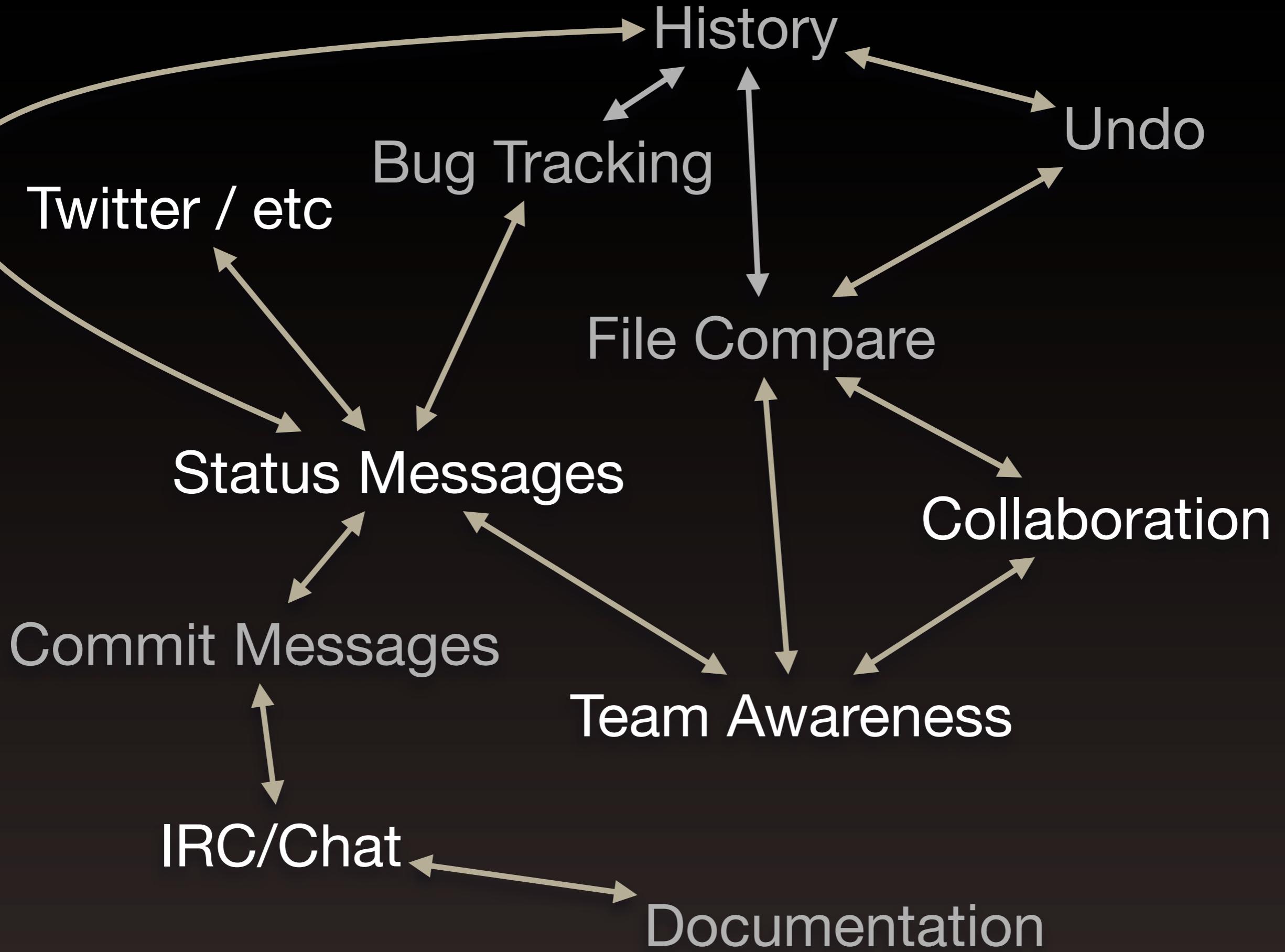












Replacement for <textarea>

Add-on to code site like SourceForge

Standalone like bespin.mozilla.com

Custom project install

Intranet install

Titanium install



