Using Git with a GUI

THE CASE FOR GIT WITH A GUI: MINIMIZING THE LEARNING CURVE



Xavier Morera
PASSIONATE ABOUT TEACHING

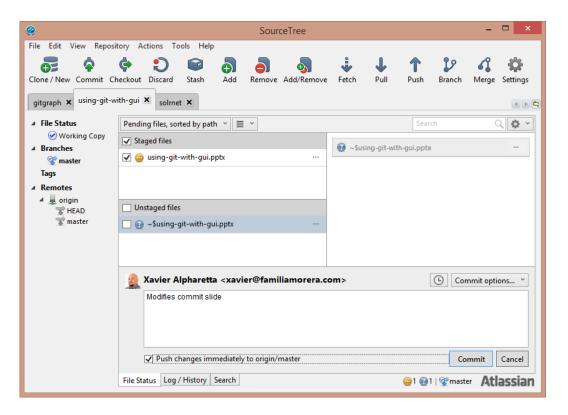
@xmorera www.xaviermorera.com



Command Line or GUI?

```
_ 🗆 X
                                                                                                                                                            posh~git ~ using-git-with-gui [master]
    D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master
    On branch master
    Your branch is up-to-date with 'origin/master'.
    Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)
  no changes added to commit (use "git add" and/or "git commit -a")
D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master
D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master
                                                                                                                                                                                                                                                                                     ]> git add using-git-with-gui.pptx
                                                                                                                                                                                                                                                                                     > git status
    On branch master
 Your branch is up-to-date with 'origin/master'.
Changes to be committed:
(use "git reset HEAD <file>..." to unstage)
    D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master +0 -1 -0]> git commit -m "Modifies commit slide"
O:\propbox\xavier-morera-pluralsight-dev\using-git-with-gui [master of electric flagster of clear of electric flagster of clear of electric flagster of elec
              f9a46a6..7dce2e6 master -> master
    D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master]> git status
    On branch master
   Your branch is up-to-date with 'origin/master'.
   nothing to commit, working directory clean
D:\Dropbox\xavier-morera-pluralsight-dev\using-git-with-gui [master]>
```

Command Line | Atlassian SourceTree





Demo



Command Line vs. GUI



Why Git?

(The Best)

Source Control

Integrity

Amazingly Fast

Local Operations

Disconnected

Distributed

Incredibly Powerful A Must In Your Skillset



Killer Feature



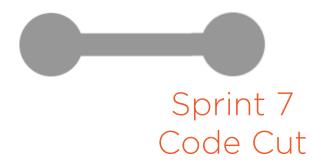
Branches



They Are Different

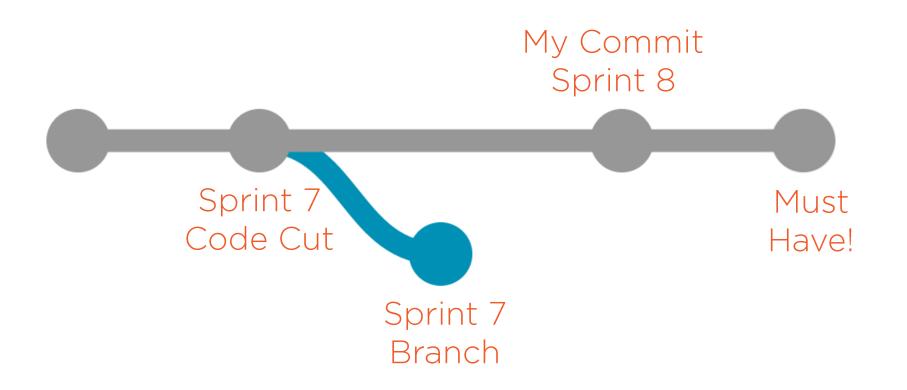


Let Me Tell You a Story





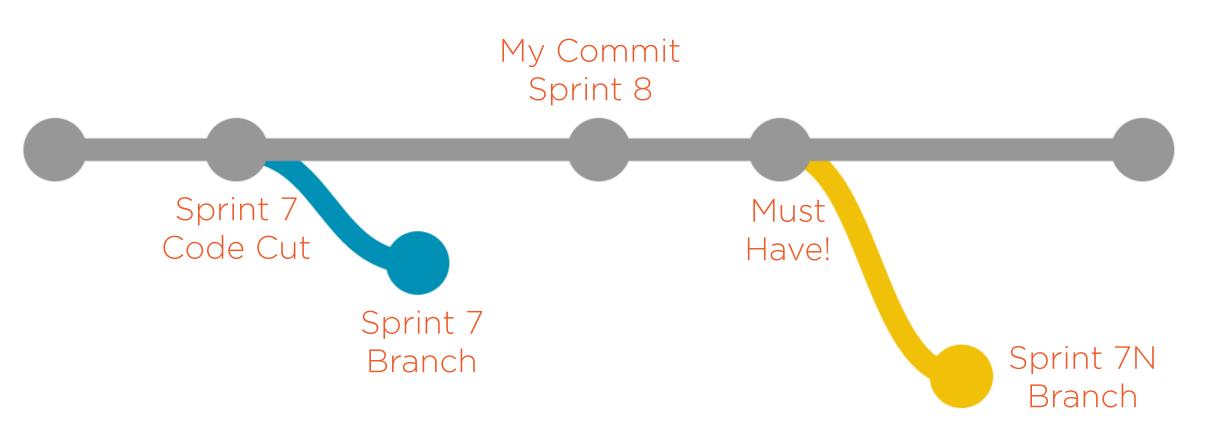
Let Me Tell You a Story



(with another source control)



Let Me Tell You a Story







Do You See the Problem?

Sprint 7
Without Must Have



Sprint 7N
With Must Have
"My Commit" Sprint 8



This Is What Happened

Chaos and Debugging



With Git





Still Not Convinced?



Microsoft/dotnet

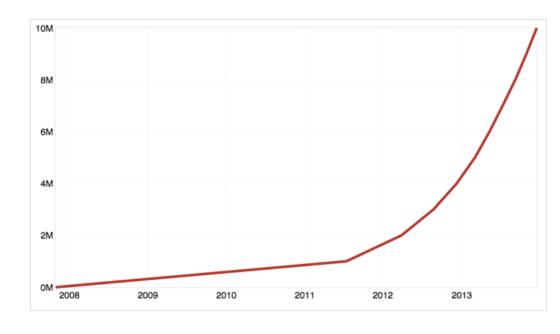
Linux

SolrNet

Json.NET

Bootstrap

FontAwesome



https://github.com/blog/1724-10-million-repositories

Node.js

AngularJS

D3

JQuery

Backbone.js

Ruby on Rails





Git







Why Is It Hard to Learn Git?





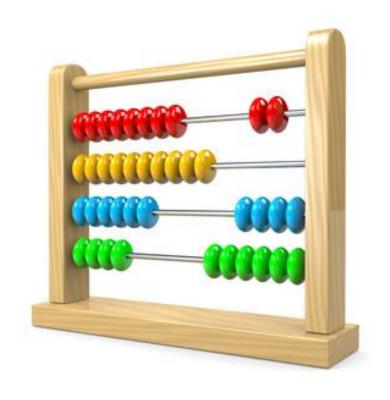


Why Is It Hard to Learn Git?

SVN, TFS and others...

They are easier!

- Simpler workflow
 - Downsides
- Not distributed
- Not as powerful as Git
- Git is different





Why Is It Hard to Learn Git?

More places where your code can exist

- Stash, local working directory, index, local repository and remote repository
- Increases possible interactions

A few concepts that are hard at first

Merge, rebase? Fast forward merge?

Git internals





Tools - Why Is It Hard to Learn Git?

- Many command line being widely used
- Can be hard especially if used to IDE
- Others tools are not very good
- Atlassian SourceTree is here to help!







Git Is Hard

"Early versions of Git did require a certain amount of brain power to wrap your mind around..."

Linus Torvalds



Git

Get Started

Don't Get Scared



Using Git with a GUI

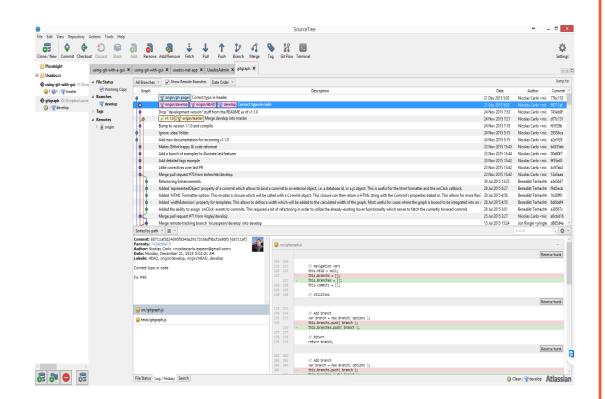
Easier
Quicker
Productive





Why Git with a Gui?

Atlassian SourceTree



Makes you life easier

Git Personal Assistant



Helps you improve productivity

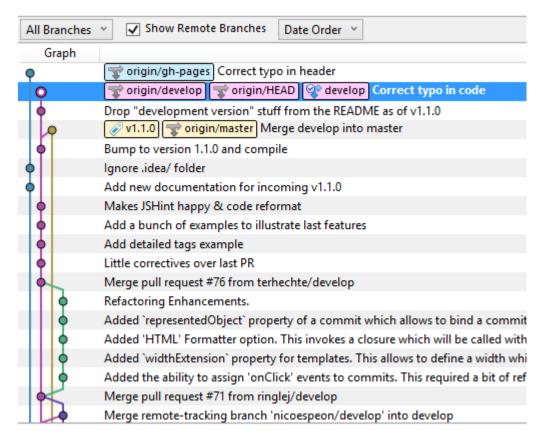


Minimize Git's Learning Curve

Visualize Branches

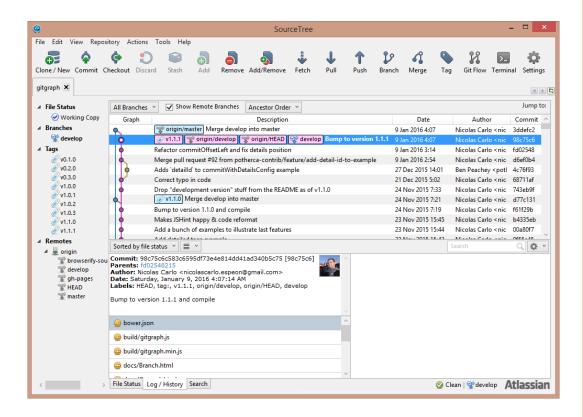


And History

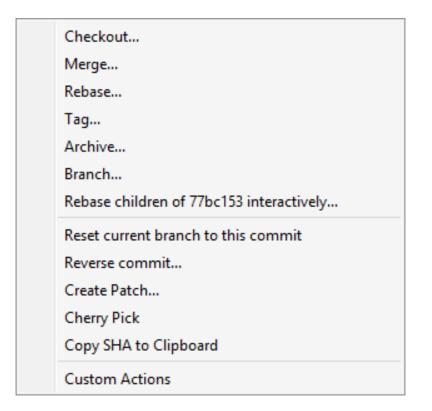




Minimize Git's Learning Curve



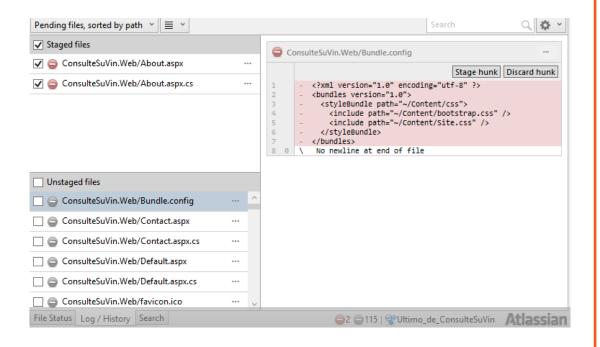
Git's Commands | From Basic To Advanced

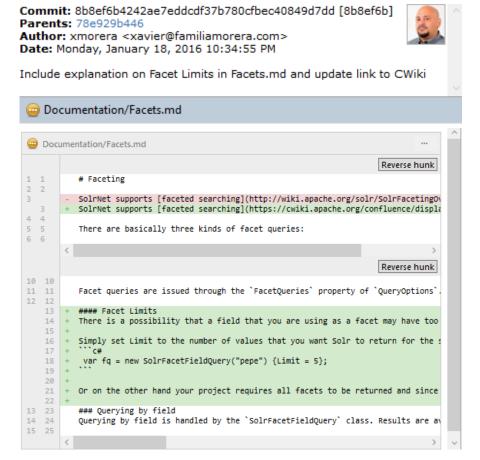




Minimize Git's Learning Curve

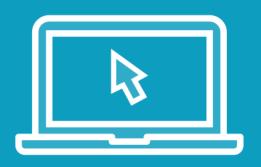
Prepare Commits | Visualize Changes





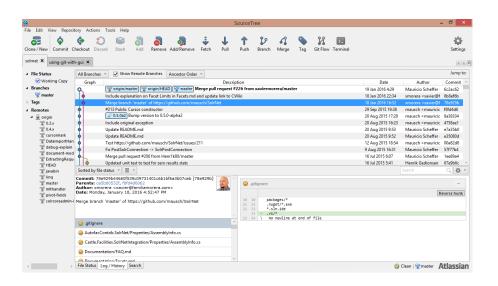


Demo





Improving Productivity With a GUI





Atlassian SourceTree

Perfect for Beginners

GUI

Much easier than command line

Pareto's Law (80/20 Rule)

Most likely does everything you need

Easy... Simple...

Smoother learning curve

Git feel familiar from day 1

Powerful Enough for Experts

Terminal

Extensible

Custom Actions

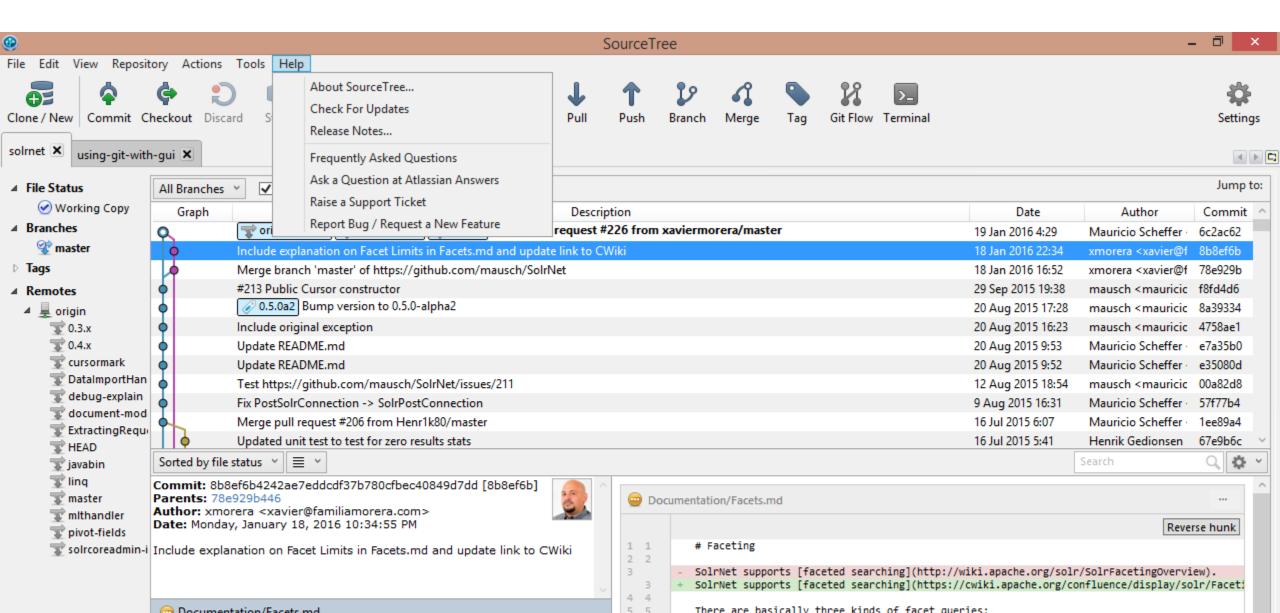
Review outgoing/incoming changesets

Cherry-pick between branches

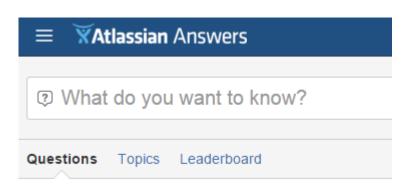
Patch handling, (interactive) rebase, stash, shelve, and much more



Atlassian Behind SourceTree

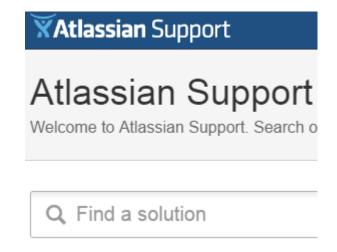


Atlassian Behind SourceTree

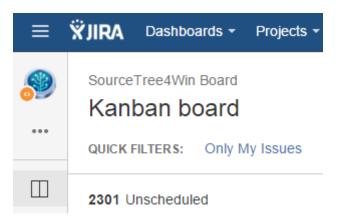


Questions about "sourcetree"

Atlassian Answers



Support Ticket



Report Bug Request Feature



How Do I Get SourceTree?





Branch

Merge

Git Flow Terminal

Pull

Clone / New | Commit Checkout Discard

Stash

Remove Add/Remove Fetch



4 | -





Takeaway

Git is Great

Widely Used

Hard

Minimize the Learning Curve

Git with a GUI

Atlassian SourceTree

