Git Tips!

Some things I've found that help with general use.

Trimming Branches

You've been hard at work for a while creating all sorts of branches for all sorts of JIRA tickets. You submit your PR, and it gets merged. You move on to the next ticket

and forget to remove the old branch. You move on to the next task and create another branch. In the middle of that there is a fire and you put it out with yet another branch!

SO MANY BRANCHES WHICH ONES DO I NEED?!?!

This is common, and happens to me all the time. Run this:

```
git checkout master
git branch --merged
```

This will produce a list of branches that **have** been merged into master. These are normally the branches (of course excluding master 🙂) that you can remove with

```
git branch -d [branch-name]
```

But who wants to do that one at a time? Let's do it all with one command

```
git branch --merged | xargs git branch -d
```

OoOoOo Pretty Logs

Git log, in my opinion at least, **sucks.**

```
commit 63abb2a1bc042e7d9639e268d8f6ed884a32bbe2
Merge: 096f52a fcfef36
Author: Kelsey Paone <kelseyp@aweber.com>
Date:   Mon Feb 17 16:07:01 2014 +0000

    Merge pull request #795 from aweber-classic/images-headshots

     add denise w headshot

commit fcfef36dc0e1d1e48cd906e498bf82393b56a97d
Author: julie jarrett <juliej@aweber.com>
Date:   Mon Feb 17 11:06:13 2014 -0500

     add denise w headshot
    EDU-851 add drop shadow to denise w headshot, add to weekly-update images

commit 096f52a07fa7cc04f3173a7bfd06cee6dc0fc433
Merge: 23fc1de e155c07
Author: Ben Spoon <bens@aweber.com>
Date:   Mon Feb 17 16:03:52 2014 +0000

    Merge pull request #794 from aweber-classic/NOTIF-135-remove-expired-cc-box

    status: Remove expired CC check in CP

commit e155c0749366591fe034f2f8cc9a39a03ffc4b6f
Author: Ethan McCreadie <ethanm@aweber.com>
Date:   Mon Feb 17 11:02:06 2014 -0500

    status: Remove expired CC check in CP

    NOTIF-135
```

It isn't very easy to read when you are looking for something particular. I have two solutions:

A sweet looking history replacement that gives you a visual representation of the log:

```
git log --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr)
%C(bold blue)<%an>%Creset' --abbrev-commit --date=relative
```

gives you something like this:

```
*   63abb2a - (HEAD, tag: 1.199.18, origin/master, origin/HEAD, master) Merge pull request #795 from aweber-classic/images-headshots (22 hours
|\
| * fcfef36 -  add denise w headshot EDU-851 add drop shadow to denise w headshot, add to weekly-update images (22 hours ago) <julie jarrett>
|/
*   096f52a - Merge pull request #794 from aweber-classic/NOTIF-135-remove-expired-cc-box (22 hours ago) <Ben Spoon>
|\
| * e155c07 - status: Remove expired CC check in CP (22 hours ago) <Ethan McCreadie>
| * 9dab8e0 - cleanup: Fix whitespace (22 hours ago) <Ethan McCreadie>
* |   23fc1de - Merge pull request #782 from aweber-classic/fix-kissmetrics-login (22 hours ago) <Ben Spoon>
|\ \
| |/
|/|
| * 5fd5fb6 - (origin/fix-kissmetrics-login) Fix issue with Kiss Metrics account login (6 days ago) <Jason Krol>
* |   d8ea992 - (tag: 1.199.17) Merge pull request #792 from aweber-classic/add-failed-cc (23 hours ago) <ethanm>
|\ \
| * | 87044ee - code style fixes (23 hours ago) <John Brodie>
| * | 6348b1d - models.credit_card: Align param comments (23 hours ago) <John Brodie>
| * | 482c3f7 - (origin/add-failed-cc) tests: Clean up CC model style (2 days ago) <John Brodie>
| * | c351ecf - models.credit_card: Split long lines better (2 days ago) <John Brodie>
| * | f19f7e3 - models.credit_card: Change statsd const name (2 days ago) <John Brodie>
| * | c3a1ef8 - models.credit_card: Fix line length (2 days ago) <John Brodie>
| * | 83e6db0 - models.credit_card Add new param to docstring (2 days ago) <John Brodie>
| * | 61956f7 - models.credit_card: Dismiss cc_failure notif (4 days ago) <John Brodie>
| * | a9aed67 - models.credit_card: Generalize clearNotification (4 days ago) <John Brodie>
* | |   5ed88f2 - Merge pull request #788 from aweber-classic/feature-flag (4 days ago) <ethanm>
|\ \ \
| * | | 206b9a2 - components.FeatureFlag: Additional falsy values. (4 days ago) <Jim Fitzpatrick>
| * | | 06a25d1 - (origin/feature-flag) admin.main-menu: Add link to Features page. (4 days ago) <Jim Fitzpatrick>
| * | | 5b0f84b - admin: Add Features page. (4 days ago) <Jim Fitzpatrick>
| * | | b61cb79 - components: Add FeatureFlag. (4 days ago) <Jim Fitzpatrick>
* | | |   029328a - Merge pull request #790 from aweber-classic/webforms-corpo (4 days ago) <Kelsey Paone>
|\ \ \ \
| |_|/ /
|/| | |
| * | | 29e7bc3 - corpo template missing image added gray preview images instead of folder grey (4 days ago) <julie jarrett>
* | | |   2ff1343 - (tag: 1.199.16, cpc-415-stuck-template) Merge pull request #789 from aweber-classic/NOTIF-72-refresh-notifications-after-a
|\ \ \ \
| | |/ /
|/| | |
| * | | d7e6a9a - cleanup: Whitespace changes (4 days ago) <Ethan McCreadie>
| * | | ef079f9 - credit card: Re-fetch notifications on card save (4 days ago) <Ethan McCreadie>
| |/ /
* | |   c583b35 - Merge pull request #787 from aweber-classic/app-showcase (4 days ago) <Brad Campbell>
|\ \ \
| | |/ /
|/| |
| * | 73e59c1 - (origin/app-showcase) edit app showcase removing presashop, duplicate gekoboard app removed DSN-103 (4 days ago) <julie jarret
:|
```

SO PRETTY!

The problem with that is no one would ever want to type that out. Lets make a shortcut for that hmm?

```
git config --global -e
```

Add a section to that (if it doesn't already exist) that looks like this:

```
[alias]
      l = log --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s
%Cgreen(%cr) %C(bold blue)<%an>%Creset' --abbrev-commit --date=relative
```

This way, when you run "git l" it will pump out a pretty-fied log.

My other solution, if you don't want all that pretty-ness is this:

```
git log --oneline --decorate
```

Pumps out something along these lines

```
63abb2a (HEAD, tag: 1.199.18, origin/master, origin/HEAD, master) Merge pull request #795 from aweber-classic/images-headshots
fcfef36  add denise w headshot EDU-851 add drop shadow to denise w headshot, add to weekly-update images
096f52a Merge pull request #794 from aweber-classic/NOTIF-135-remove-expired-cc-box
e155c07 status: Remove expired CC check in CP
9dab8e0 cleanup: Fix whitespace
23fc1de Merge pull request #782 from aweber-classic/fix-kissmetrics-login
d8ea992 (tag: 1.199.17) Merge pull request #792 from aweber-classic/add-failed-cc
87044ee code style fixes
6348b1d models.credit_card: Align param comments
482c3f7 (origin/add-failed-cc) tests: Clean up CC model style
c351ecf models.credit_card: Split long lines better
f19f7e3 models.credit_card: Change statsd const name
c3a1ef8 models.credit_card: Fix line length
83e6db0 models.credit_card Add new param to docstring
5ed88f2 Merge pull request #788 from aweber-classic/feature-flag
206b9a2 components.FeatureFlag: Additional falsy values.
61956f7 models.credit_card: Dismiss cc_failure notif
a9aed67 models.credit_card: Generalize clearNotification
029328a Merge pull request #790 from aweber-classic/webforms-corpo
29e7bc3 corpo template missing image added gray preview images instead of folder grey
2ff1343 (tag: 1.199.16, cpc-415-stuck-template) Merge pull request #789 from aweber-classic/NOTIF-72-refresh-notifications-after-adding-cc
d7e6a9a cleanup: Whitespace changes
ef079f9 credit card: Re-fetch notifications on card save
c583b35 Merge pull request #787 from aweber-classic/app-showcase
73e59c1 (origin/app-showcase) edit app showcase removing presashop, duplicate gekoboard app removed DSN-103
06a25d1 (origin/feature-flag) admin.main-menu: Add link to Features page.
5b0f84b admin: Add Features page.
b61cb79 components: Add FeatureFlag.
857226d app showcase page edit removing prestashop from apps showcase public site page DSN-103
68babd8 (tag: 1.199.15) Merge pull request #783 from aweber-classic/NOTIF-72-handle-notifications-in-cc-model
db4fe0b Merge pull request #785 from aweber-classic/templates-twenty-form
07df811 (origin/templates-twenty-form) twenty template add image web form template add images 2012 2013 2014 themes
94e4540 credit cards: Include a_id in CC update & create
f41f14d cleanup: Whitespace changes
fcf1415 credit card: Drop array prefix for update()
64b6979 (tag: 1.199.14) Revert "cpcan: Treat cancellations as enabled everywhere."
```

Which is a little easier for me to read when I am looking at the commits in between tags or something.

Git status one liner

Umm.. yup. Here that is:

```
git status -sb
```

Short, simple, awesome.

MOAR ALIAS

I use these because I don't like typing, I mean, who does?

Just add them to your global config like we did earlier for pretty logs:

```
[alias]
      co = checkout
      ci = commit
      st = status
      br = branch
      hist = log --pretty=format:\"%h %ad | %s%d [%an]\" --graph --date=short
      type = cat-file -t
      dump = cat-file -p
```

Notes

You know how in GitHub our comments on commits disappear when the branch is merged? Really want something to be there when you look in the logs?

It's easy:

```
git notes add
```

Tada. Type your note, save and boom:

```
commit 87e916985e3530a1021a35adabe15ddf9b897dd4
Author: Ben Spoon <bens@aweber.com>
Date:   Fri Dec 27 11:14:38 2013 -0500

    Add top navigation styles

    NUE-56
    Changes shared.css to inlcude the new
    top navigation styles as well as changes
    some old styles to adapt to the new nav

Notes:
    This is a note for my example!

commit 0f3f7b65e9889911eda4c41d105bc554e6ebff82
Author: Ben Spoon <bens@aweber.com>
Date:   Fri Dec 27 11:09:13 2013 -0500

    Change top navagation HTML to include a submenu

    NUE-56
    Adds a submenu to the top navigation that
    includes links for my account and logout.
    This also adds the user's first name as the
    main navigation item title.
```

You can also do

```
git notes add -m 'Your message here'
```

For one liners.

That's all I use really, here is an awesome article that goes over pretty much the same stuff: https://ochronus.com/git-tips-from-the-trenches/

And of course docs on docs on docs:http://git-scm.com/doc

And the git blog is awesome: http://git-scm.com/blog