# Using GitHub and Gitflow in your project

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## **About Me**







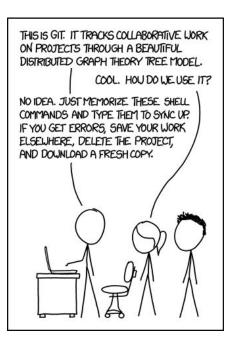
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# CS Interim in Thailand 2015 and 2018





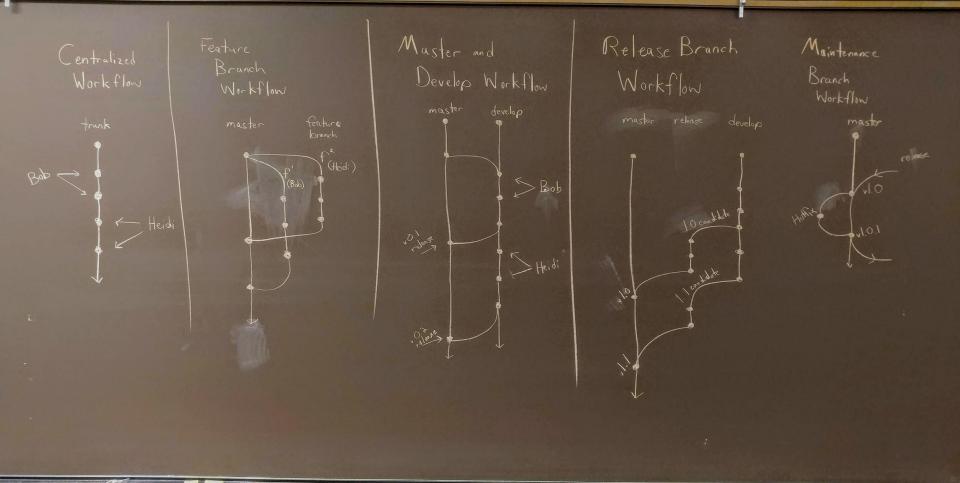
#### Who Uses Git?



https://xkcd.com/1597/

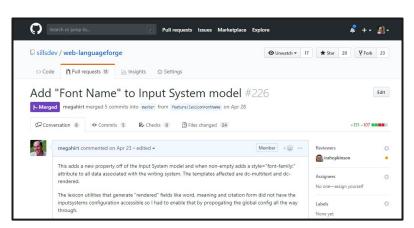
#### **Different Git Workflows**

- Centralized Repository Workflow (trunk or master branch only)
- Feature Branch Workflow
- Master and Develop Branch Workflow
- Release Branch Workflow
- Maintenance Branch Workflow (Hotfix Workflow)
- Gitflow Workflow (Uses all of the above)
- Customize and use what works best for your team and project!



## **Pull Request Workflows**

- Why use Pull Requests?
  - Code Review
  - Get other's feedback while work is under development
  - Summarize and document changes
- Pull Request Workflow
  - Fork, Branch and PR Workflow the default for open-source software and community projects
  - Same Repo, Branch and PR Workflow

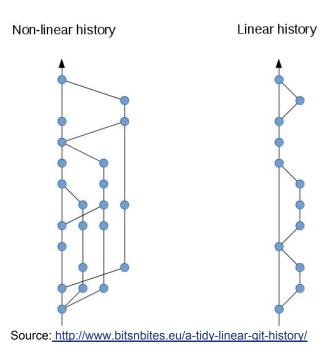


https://github.com/sillsdev/web-languageforge/pull/226

### Which Workflow Should You Use?

- Feature Branch Workflow (master + feature branches only)
- Same repo Pull Request Workflow
- Don't commit to master directly!
- Who approves Pull Requests?
  - Team Lead
  - Other members
  - o Yourself?

# Linear vs Non-Linear History (Rebase vs Merge)



#### Rebase Strategy:

- Leads to a cleaner repo / linear history
- Rewrites history (can be dangerous / destructive)
- Requires you to deal with conflicts earlier (potentially)
- Should only be used on local branches
- Harder to do
- Better for short-lived branches

#### Merge Strategy:

- Is non-destructive to history
- Creates separate merge commits
- Requires merges from master along the way
- Better for long-lived branches

#### A funny cartoon poking fun at the different software development process models









https://toggl.com/developer-methods-infographic/?ref=9gag