

Recitation 1:

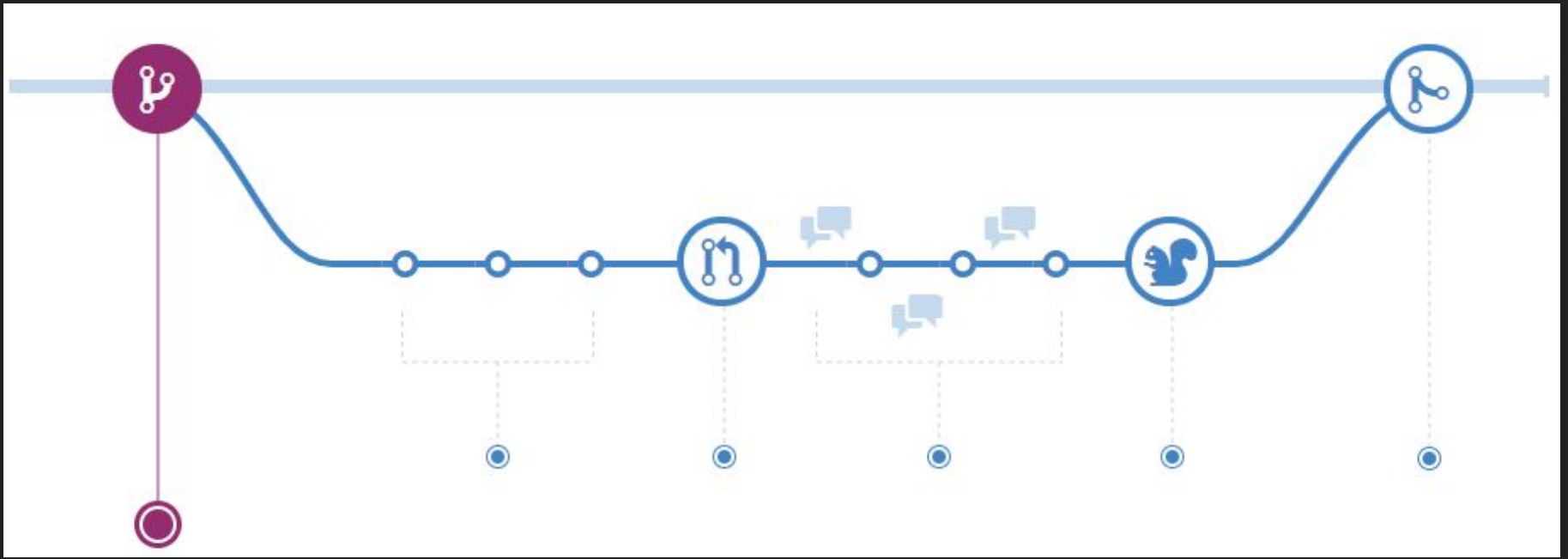
Collaborating using Git & Github

Fall 2022

Find a partner as you sit down

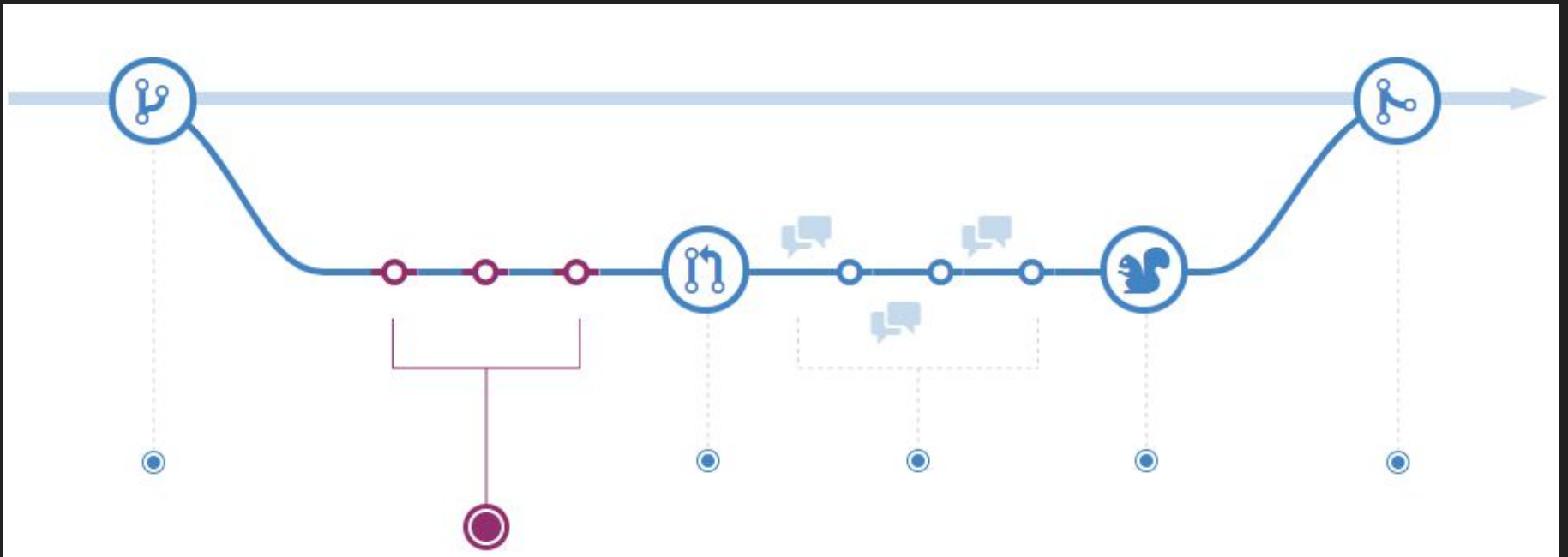
Git Flow

Taken from: Understanding the GitHub Flow
<https://guides.github.com/introduction/flow/>



Branching

- Develop features on a separate branch from main
- Branch name should be meaningful "fix-button-bug"
- `git checkout -b fix-button-bug`

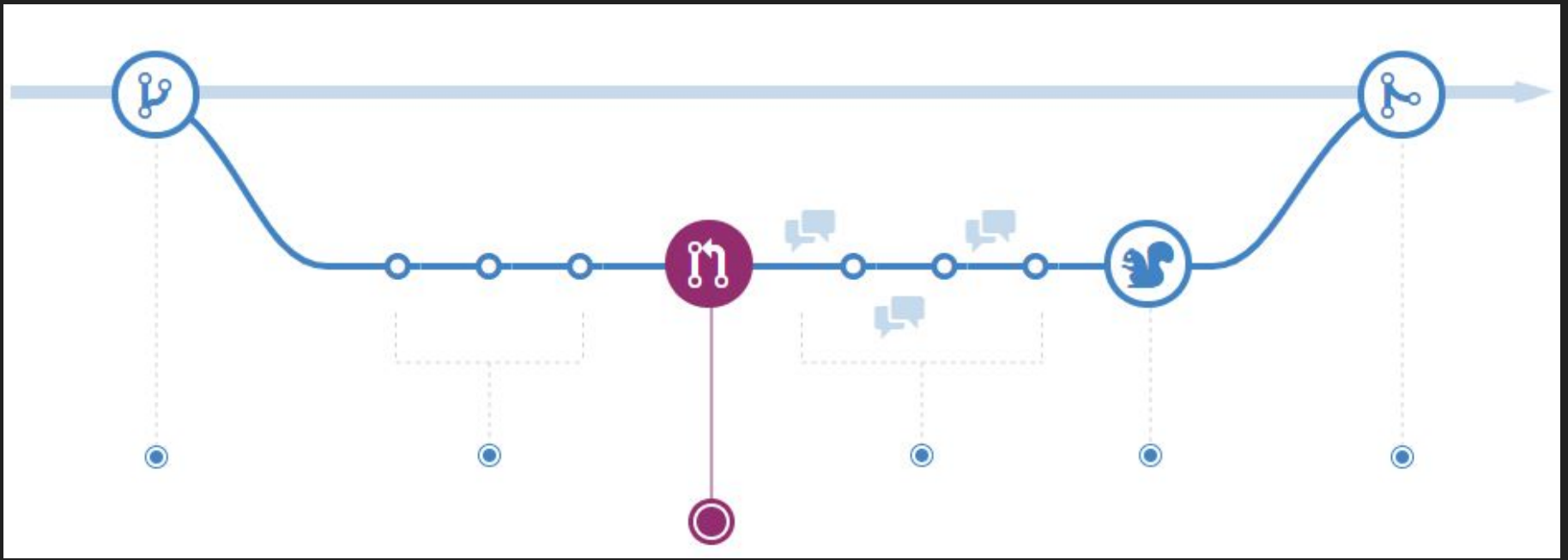


Add Commits

- Commits to create change history
- Commits should be Verb then something. KISS
- Commits can be used to close issues as well ([On GitHub](#))

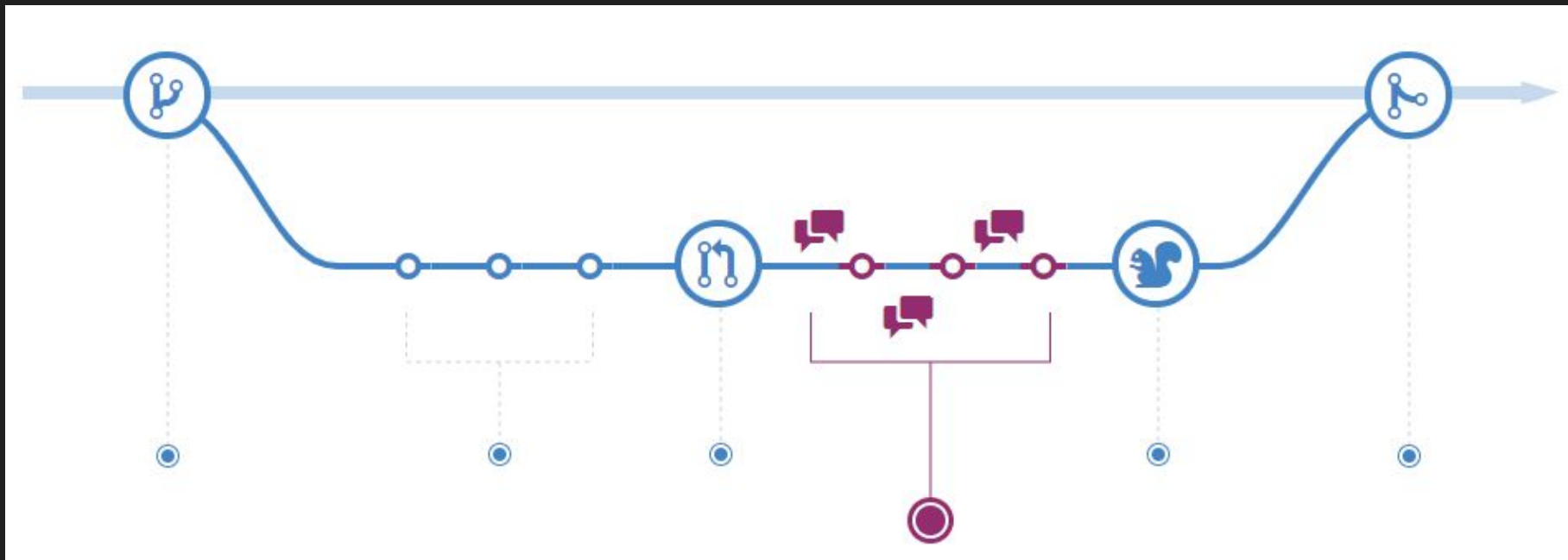
```
5ba3db6 Fix failing CompositePropertySourceTests
84564a0 Rework @PropertySource early parsing logic
e142fd1 Add tests for ImportSelector meta-data
887815f Update docbook dependency and generate epub
ac8326d Polish mockito usage
```

Now when you enter "Fixes #33" in a commit message, issue 33 will only be closed once the commit is merged into your default branch (usually `master`).



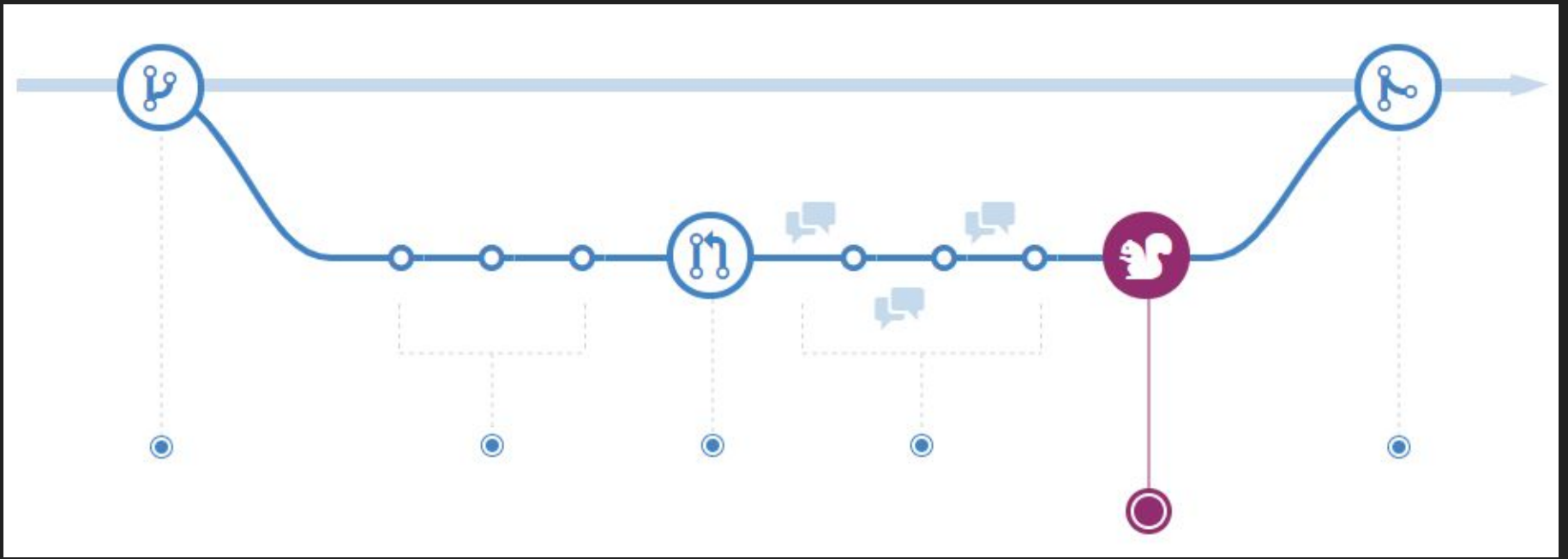
Creating Pull Requests

- Push branch up to prepare for merging with main
- Can be done anytime when writing code
- Title & Description should be meaningful, explain what issue / ticket is fixed by your changes



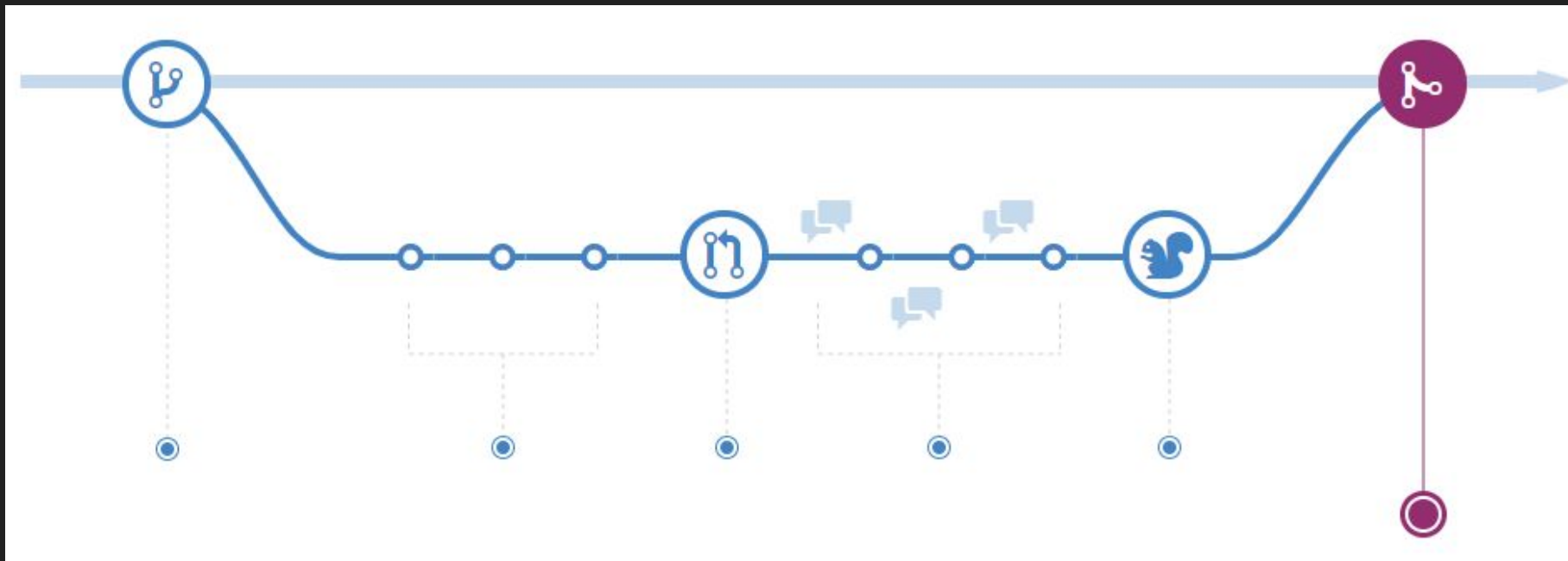
Code Review

- Done when pull request review is requested
- Back and forth process until reviewer approves



Automated Testing/Deploy

- Most DevOps tools will allow you to set up automated testing
- Run automated testing before merging



Merge to Main!

- Merge to main when your PR is approved and your automated testing passes!

Code Reviews

How to Do Code Reviews like a Human:
<https://mtlynch.io/human-code-reviews-1/>

General Guidelines

As the Reviewee

- Don't make big PRs. Aim for less than 500 lines of changes. Reviewers are more likely to not catch bugs in a larger PR

As the Reviewer

- Be polite, and make requests instead of commands
 - Could give this variable a more descriptive name? Instead of *Change this to be more descriptive*
- Focus more on performance, simplicity and maintainability
 - Style can often be handled using style guides or linting tools / code formatters
- “LGTM” - what people usually say to approve



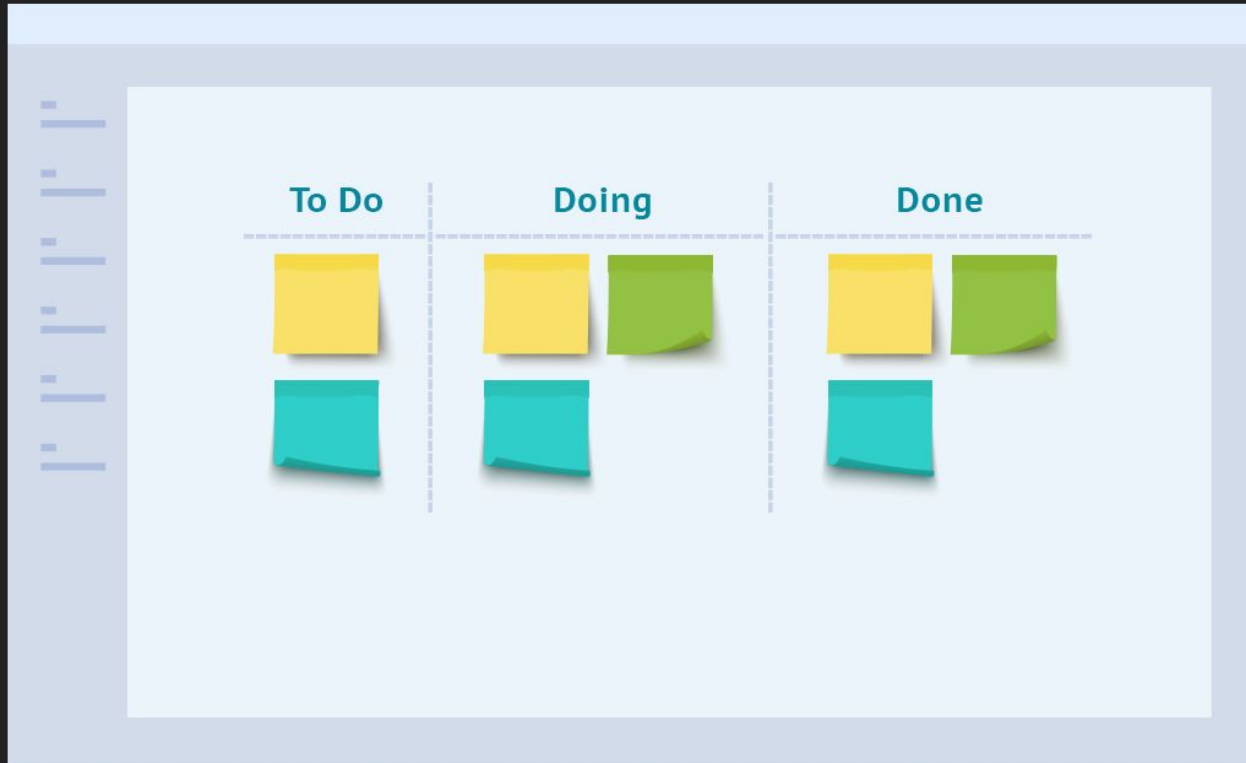
Kanban Boards

Developed in Toyota around 1940s



Meaning signboard in Japanese, allow people to know state of the project in one look

Overview



Github Projects - Twitter Bootstrap

twbs / bootstrap

Sponsor Watch 7.1k Star 153k Fork 74.6k

Code Issues 316 Pull requests 104 Discussions Actions Projects 8 Security Insights

v5.1.1 Updated 18 hours ago

Filter cards Fullscreen Menu

- 4 To do**
 - Revisit #34691 (Added by XhmikosR)
 - Toggle between modals has issue #34691 (opened by sameerparmar in twbs/bootstrap)
 - Use partialCached in some cases. #29906 (opened by XhmikosR)
 - Revert #31761 #31792 (opened by XhmikosR)
 - RTL: remaining tasks (10 of 20 tasks) #32330 (opened by ffoodd)
- 5 In progress**
 - Stacks with Gaps don't have gaps in all supported browsers (e.g. iOS 12) #34737 (opened by coliff)
 - Release v5.1.1 #34869 (opened by XhmikosR)
 - Add v5.1.1 docs #34870 (opened by XhmikosR)
 - Enable more xo rules #34888 (opened by XhmikosR)
 - Disabled link cleanup #34896 (opened by patricklauke)
- 0 Review in progress**
- 0 Reviewer approved**
- 45 Done**
 - Fix a11y issues in .hstack example and placeholder 'How it works' example #34892 (opened by julien-deramond)
 - Regenerate package-lock.json #34900 (opened by XhmikosR)
 - Bump @popperjs/core from 2.9.3 to 2.10.1 #34896 (opened by dependabot)
 - Bump @babel/core from 7.15.0 to 7.15.4 #34898 (opened by dependabot)
 - Bump @babel/preset-env from 7.15.0 to 7.15.4 #34897 (opened by dependabot)

Github Projects - Google TensorFlow

tensorflow / tensorflow

Watch 8.1k Star 159k Fork 85.4k

<> Code Issues 3.2k Pull requests 163 Actions Projects 1 Security 201 Insights

PR Queue Updated yesterday

Filter cards Fullscreen Menu

155 Assigned Reviewer

- ✓ SavedModel
#31657 opened by k-w-w
cla: yes size:XL
- Changes approved
- ❗ [INTEL MKL] Fix the error
✓ 'install_pip_packages.sh: line 20: pip2: command not found'
#31496 opened by ashahba
cla: yes size:XS
- ➔ Add one include file so that compile would succeed.
✗ #31372 opened by mihairuseac
cla: yes size:XS
- Review required
- ❗ R1.14
✗ #30123 opened by Lnaby
cla: no
- ➔ Added an argument to control the padding for flatten_atrous
✗ #28049 opened by yuzhang-deepmap
awaiting review cla: yes size:S
- ➔ optimize node placement policy in initialized_value stage.
✓ #27700 opened by shanshanpt

40 Reviewer Requested Changes

- ❗ [doc/keras] incorrect comment in `_init_` of `tf.keras.layers.AveragePooling1D`
#27633 opened by shashvatshahi1998
cla: yes comp:keras lr:type:bugfix ready to pull size:XS
- Changes requested
- ➔ random crop edge case
#31750 opened by autoih
cla: yes comp:ops size:M stalled stat:waiting response
- ➔ Image recognition example for Tensorflow Lite Micro
✗ #32287 opened by jenselofsson
cla: yes compile comp:micro ready to pull size:XL
- Changes requested
- ➔ Add Edge Board Support in Arduino Library Build for TFLu (micro)
✗ #35359 opened by odyke
cla: yes compile comp:micro ready to pull size:XL
- Changes requested

351 Approved by Reviewer

- ➔ 5 more cherrypicks into 1.14
✗ #28296 opened by bananabowl
cla: yes size:M
- Changes approved
- ➔ [ROCm] Create a wrapper header for rocprim and cub
✓ #36640 opened by ekuznetsov139
cla: yes ready to pull size:L
- Changes approved
- ➔ Clarify conversion used for Quantization
✗ #36271 opened by pra-dan
cla: yes compile ready to pull size:S
- Changes approved
- ➔ Replace fit_generator by fit
✓ #37603 opened by teobouvard
cla: yes comp:keras ready to pull size:XS
- ➔ [MLIR][XLA] Add ConcatenateOp to LHL0/HLO emitters
✓ #37927 opened by xinan-jiang
cla: yes comp:xla ready to pull

2,464 Merged

- ➔ fix op does not dominate this use after mhlo-fusion pass
#51788 opened by lipracer
cla: yes size:M
- Changes approved
- ➔ C API methods to get attribute names
✓ #50818 opened by mrett
cla: yes size:M
- Changes approved
- ➔ dockerfiles: pin jedi to allow ipython tab completion
✗ #50754 opened by japm48
cla: yes size:S
- Changes approved
- ➔ [TF:TRT] Replace c asserts with CHECK macro
✗ #51498 opened by christopherbate
cla: yes comp:tpu:tensorrt
- Changes requested
- ➔ fix: miss typo codespelling
✗ #51035 opened by slowy07
cla: yes size:M

1,946 Closed/Rejected

- ❗ complex support for tf.math.argmax and tf.math.argmax
✗ #41441 opened by jstzvj
cla: yes comp:xla lr:type:bugfix size:S stalled
- Changes requested
- ❗ CUDA Graphs in XLA
✗ #51807 opened by Ayanmol
cla: yes
- Draft
- ❗ (TF-TRT) Refactor "convert_nodes_test.cc" by breaking out major GTest fixture interfaces + other cleanup.
#51435 opened by christopherbate
cla: yes comp:tpu:tensorrt size:XL
- ❗ Portable double promotion warning
✗ fix
#51133 opened by nyadla-sys
cla: yes compile size:M
- ➔ Allow use of non-system compiler to build mlir_generated tests
✓ #50874 opened by elfingham
cla: yes comp:core size:XS

Activity Time. Pair up!