



# SOFTWARE DESIGN & IMPLEMENTATION

COSC 50 – Fall 2024

Git-Flow

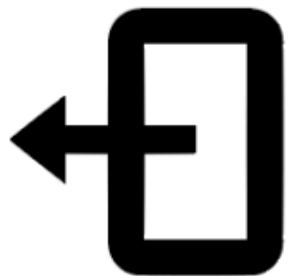
# In case of fire



1. `git commit`



2. `git push`



3. `leave building`

# BASIC GIT FLOW

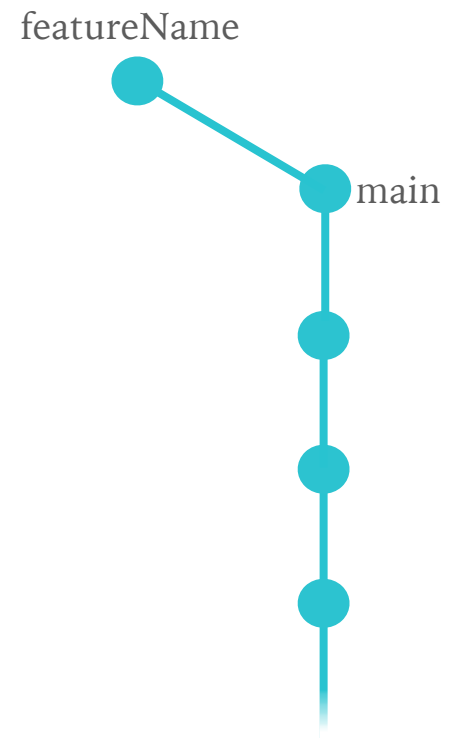
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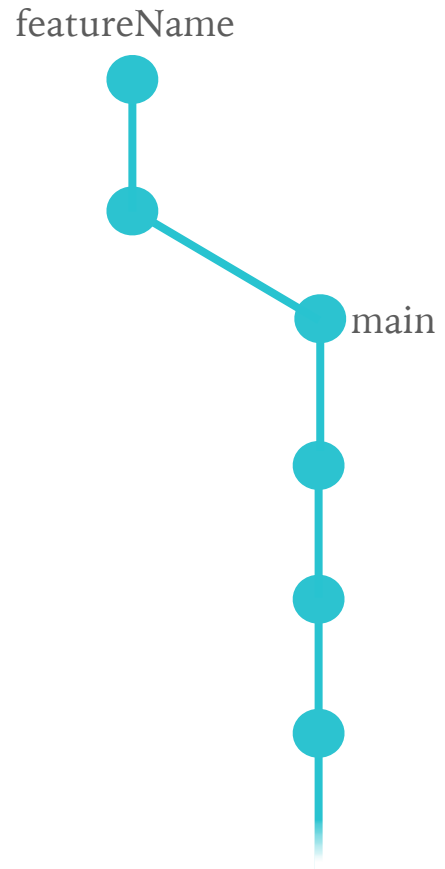


# BASIC GIT FLOW

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## 1. Branch 🌱

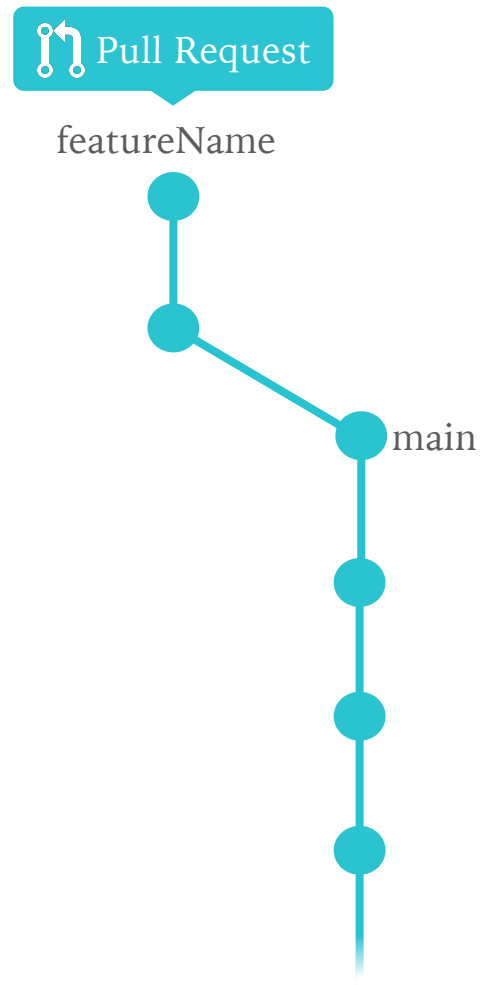


[illegible]

1. Branch 🌱
2. Develop 🧑💻

# BASIC GIT FLOW

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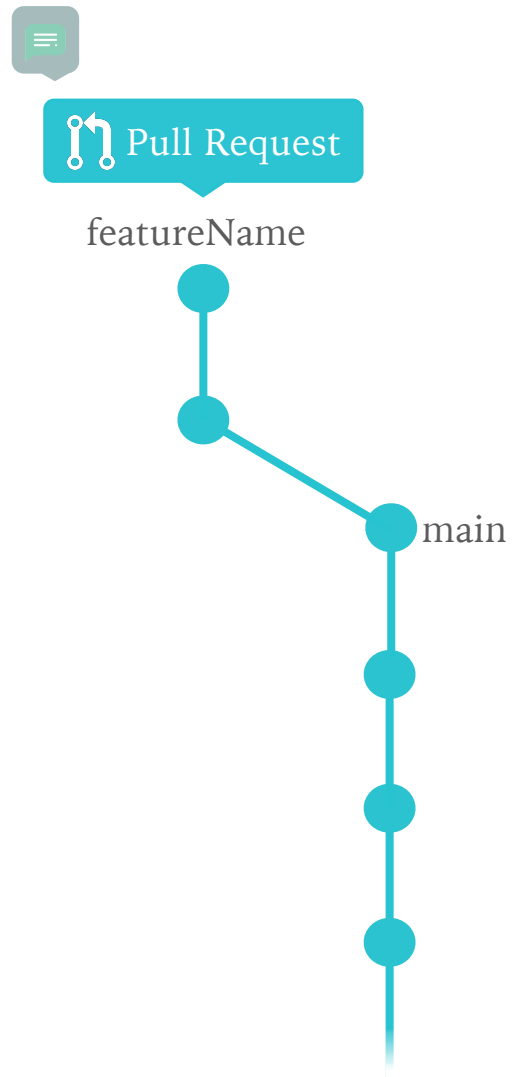
1. Branch 🌱

2. Develop 🏠

3. Pull Request 🤖

# BASIC GIT FLOW

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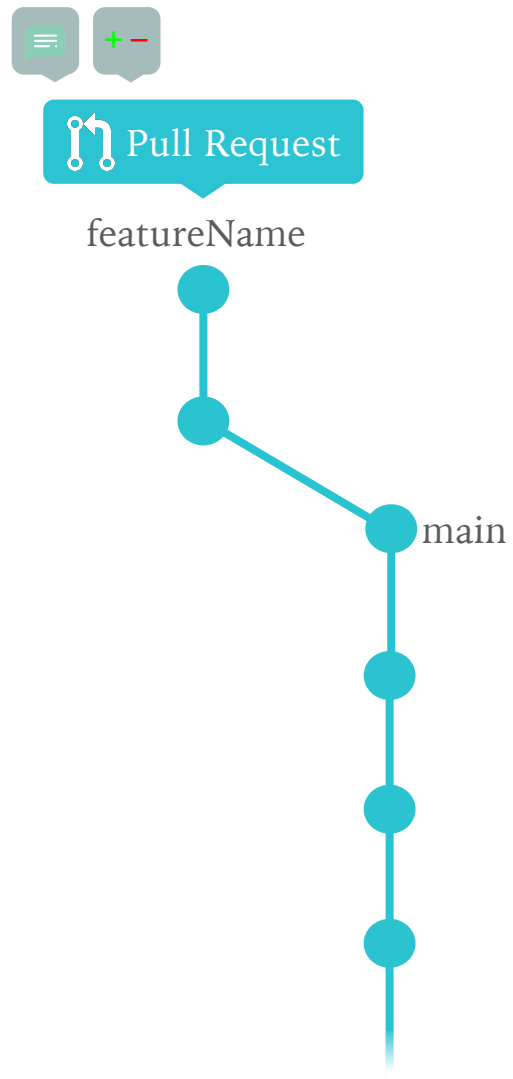
1. Branch 🌱

2. Develop 🧑💻

3. Pull Request 🤖

# BASIC GIT FLOW

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1. Branch 🌱

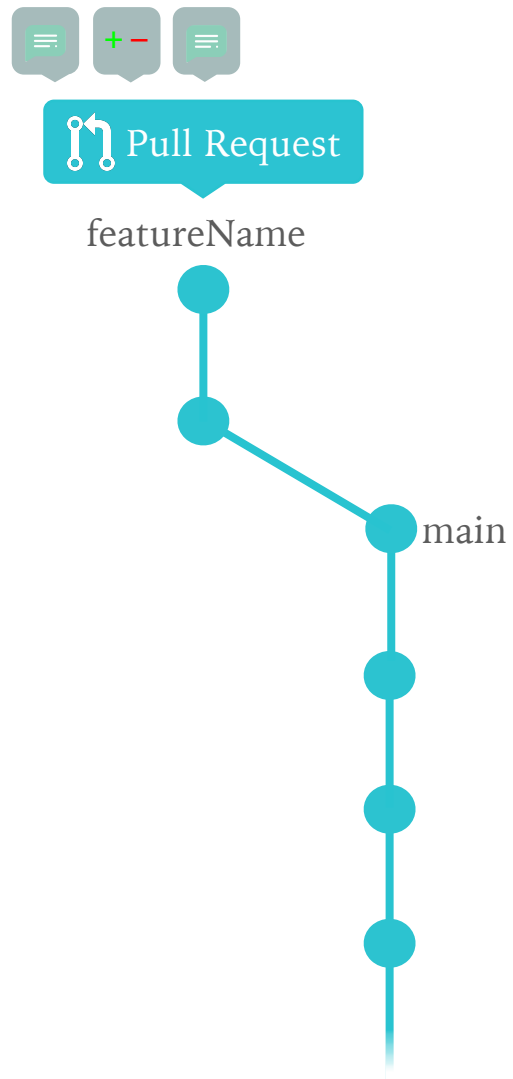
2. Develop 🧑💻

3. Pull Request 🤖



# BASIC GIT FLOW

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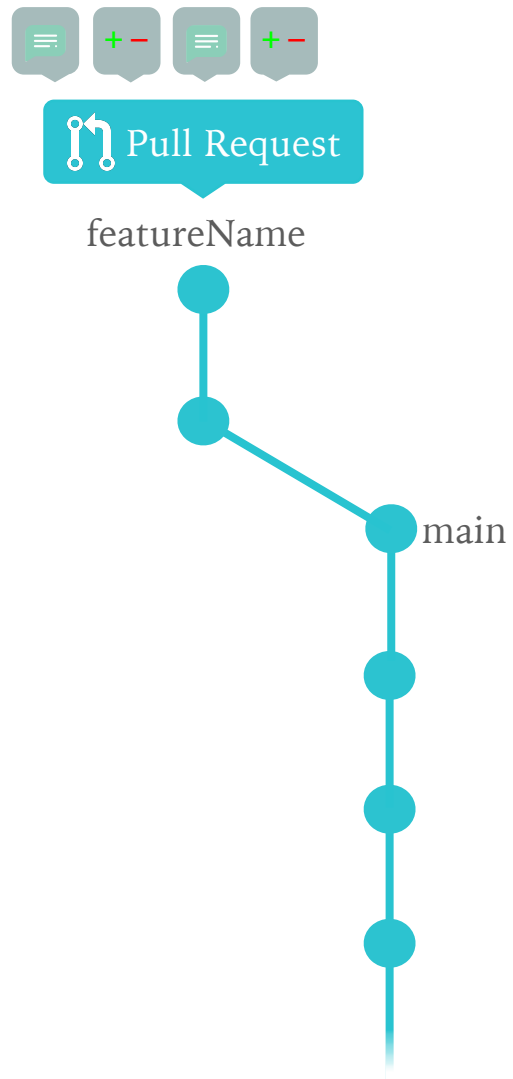
1. Branch 🌱

2. Develop 🧑💻

3. Pull Request 🤖

# BASIC GIT FLOW

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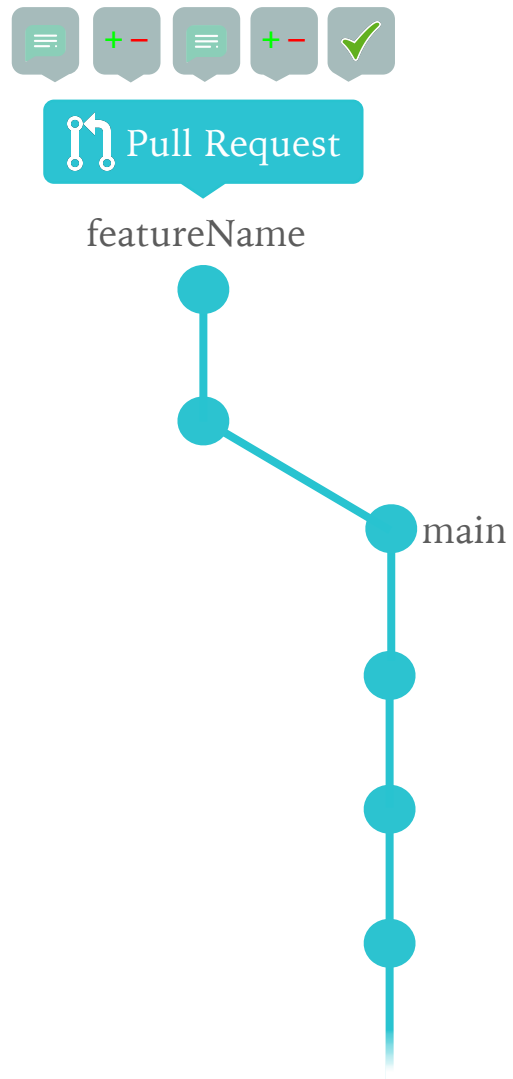
1. Branch 🌱

2. Develop 🧑💻

3. Pull Request 🤖

# BASIC GIT FLOW

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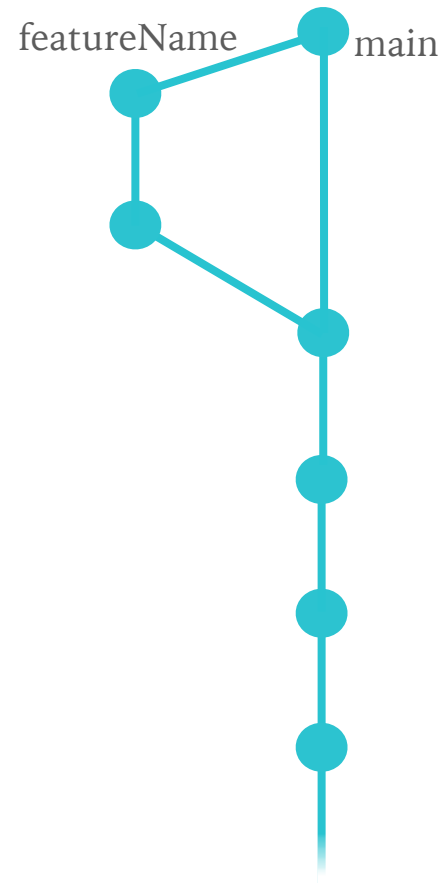
1. Branch 🌱

2. Develop 🧑💻

3. Pull Request 🤖

# BASIC GIT FLOW

---

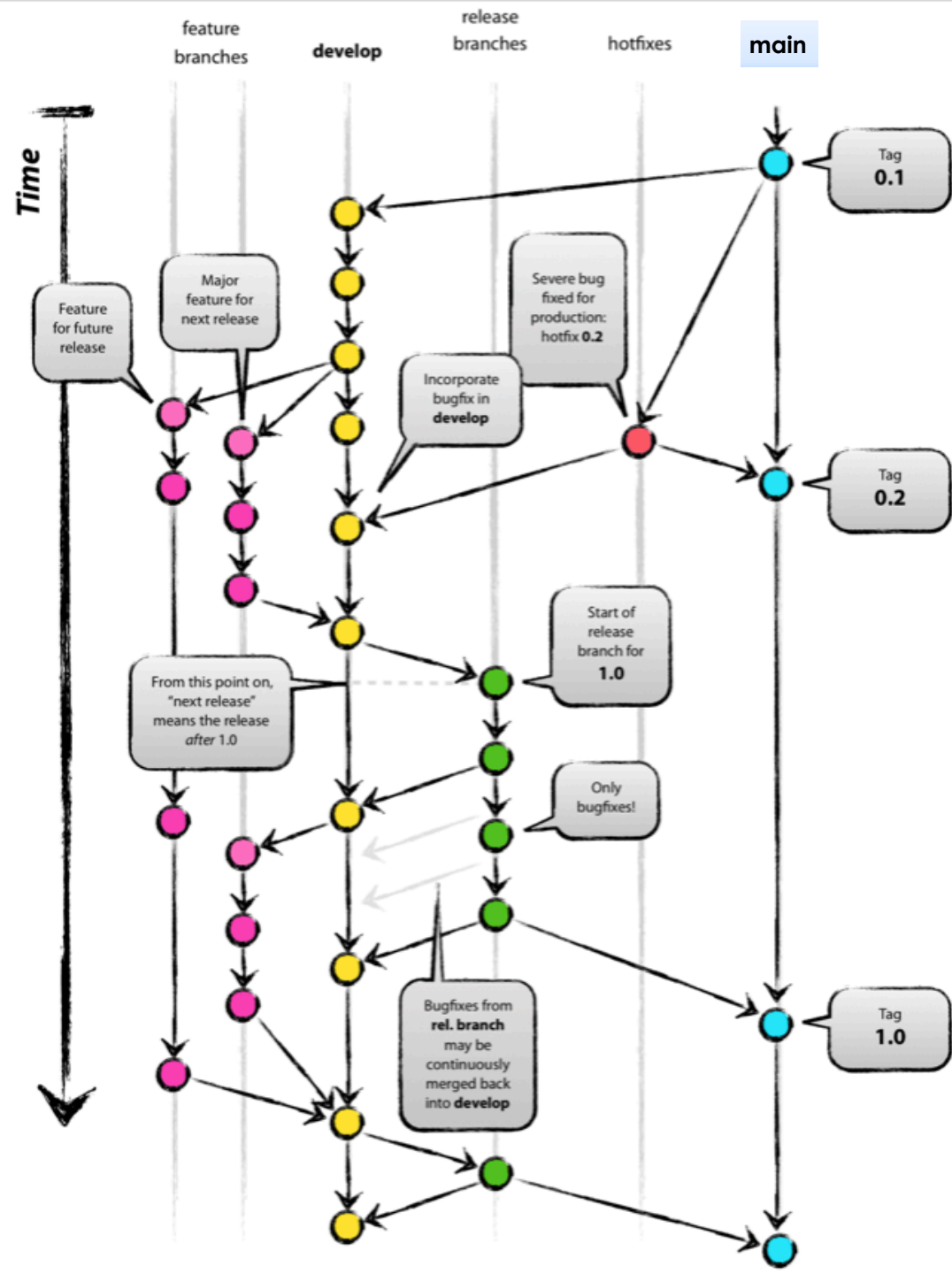


1. Branch 🌱

2. Develop 🧑💻

3. Pull Request 🤖

4. Merge 🚀



# GIT FLOW

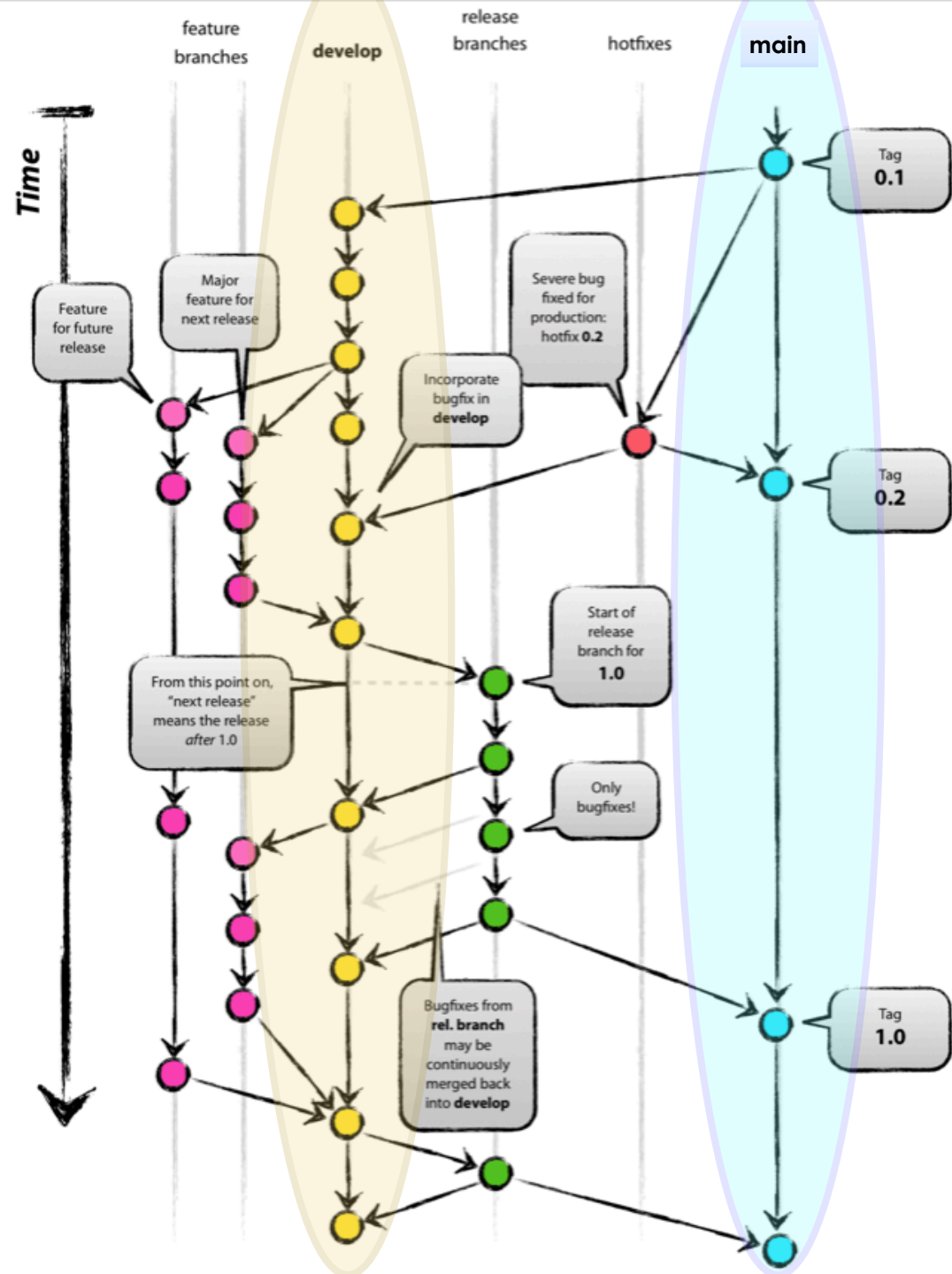
All in one repository

Two primary branches - permanent:

- main/master
- develop

Sub-Branches that come and go

- features
- releases
- hotfixes



# GIT FLOW

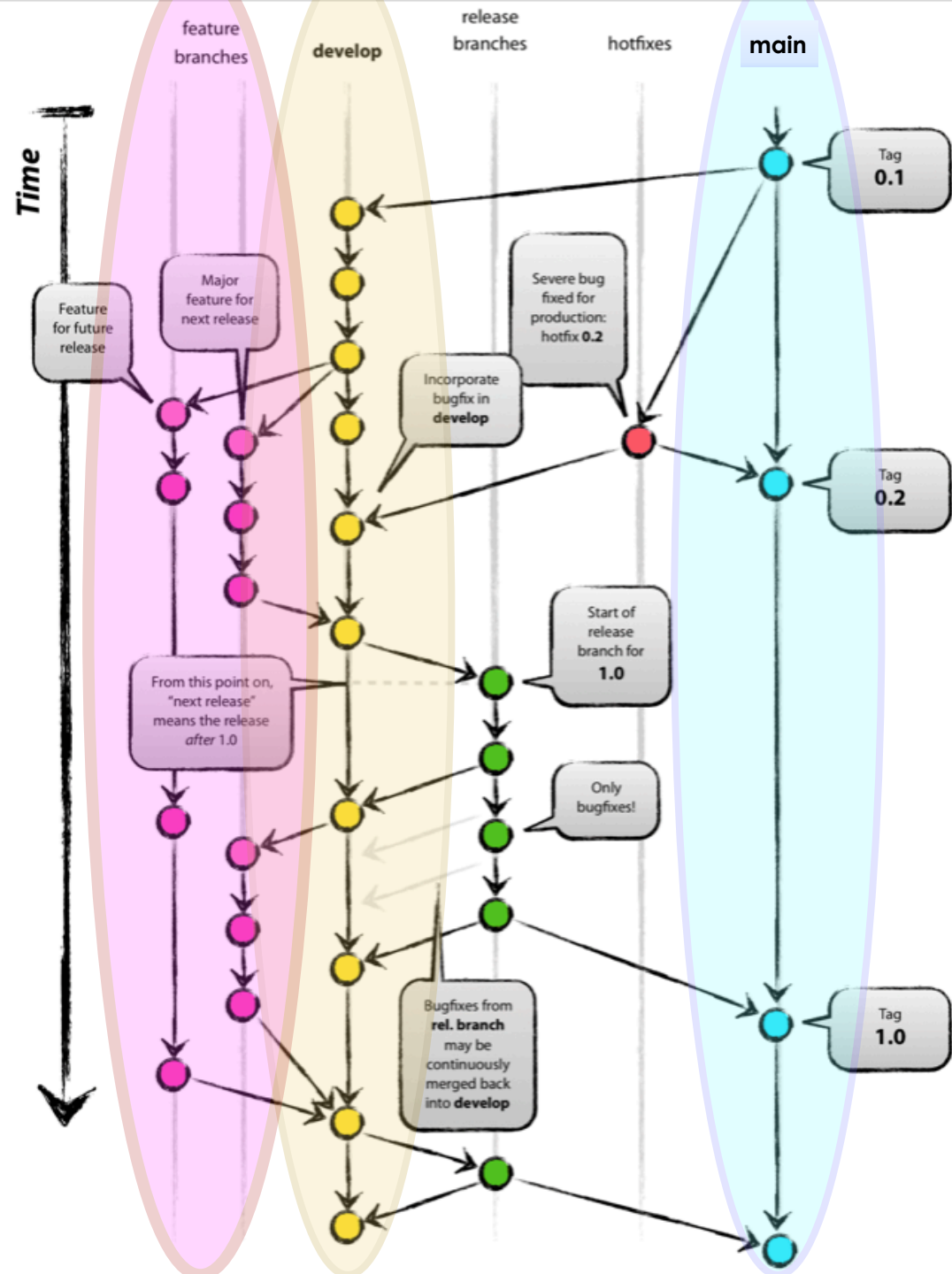
All in one repository

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Sub-Branches that come and go

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# GIT FLOW

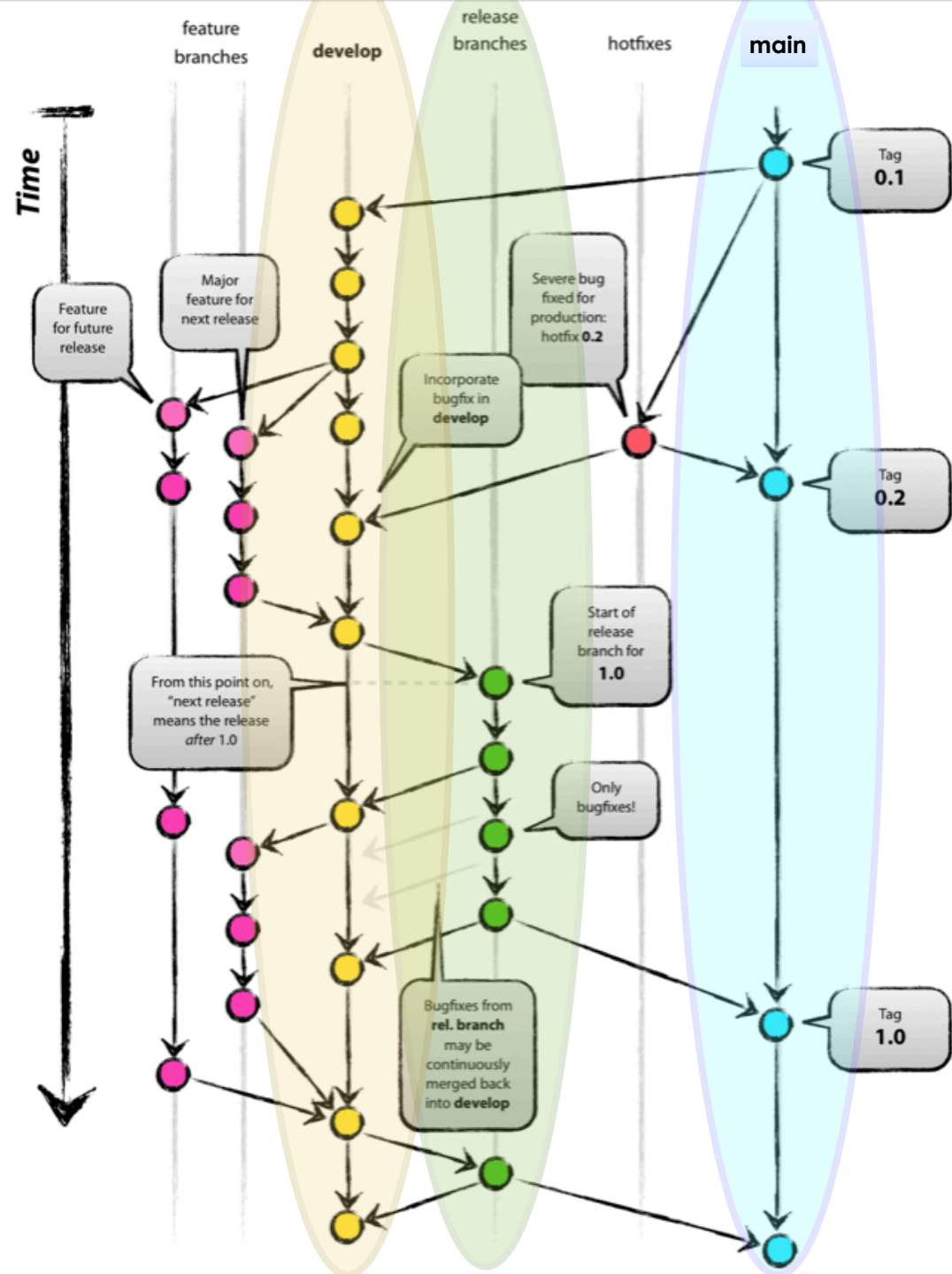
All in one repository

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Sub-Branches that come and go

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# GIT FLOW

All in one repository

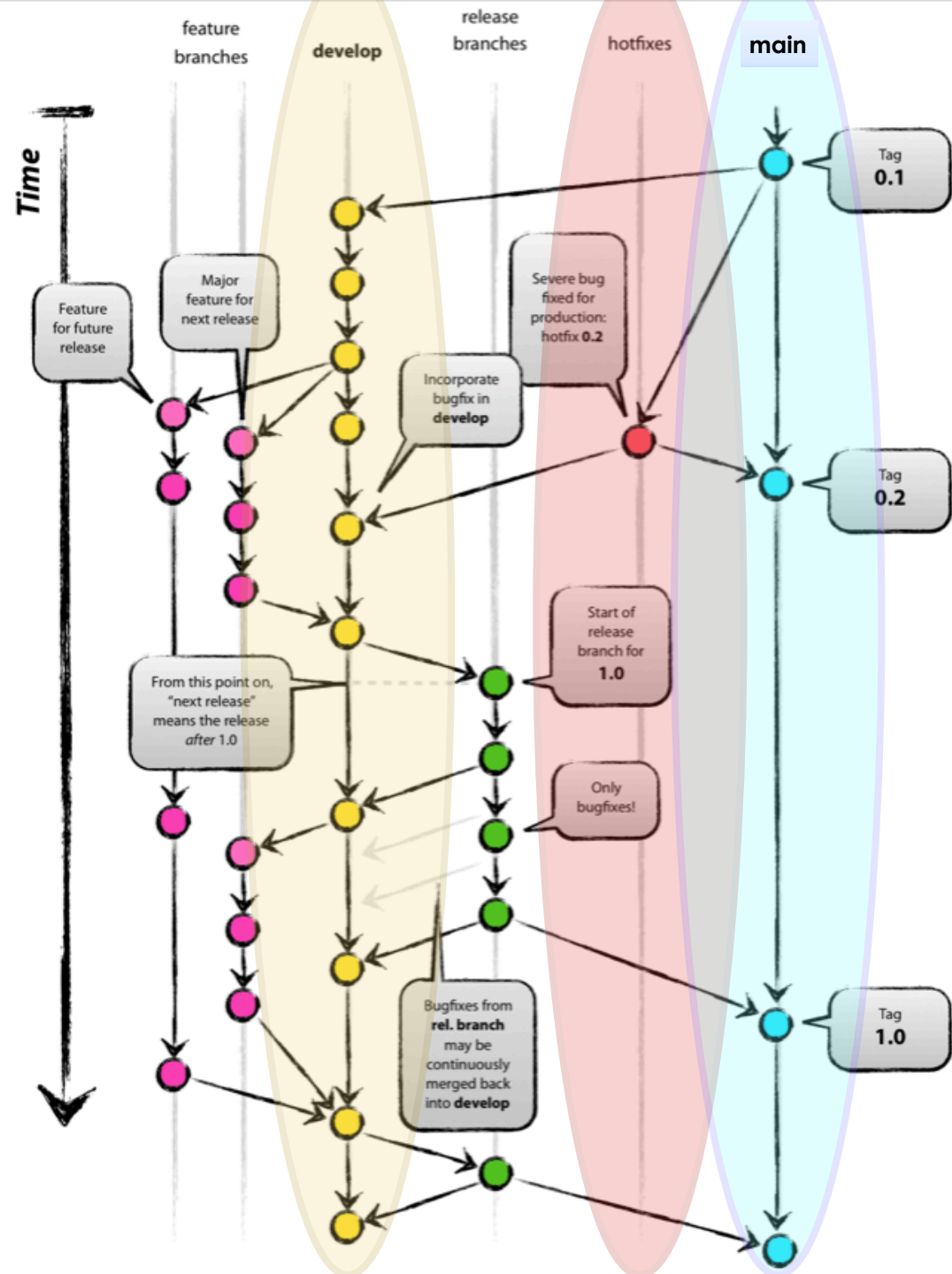
Two primary branches - permanent:

- main/master
- develop

Sub-Branches that come and go

- features
- releases
- hotfixes





# GIT FLOW

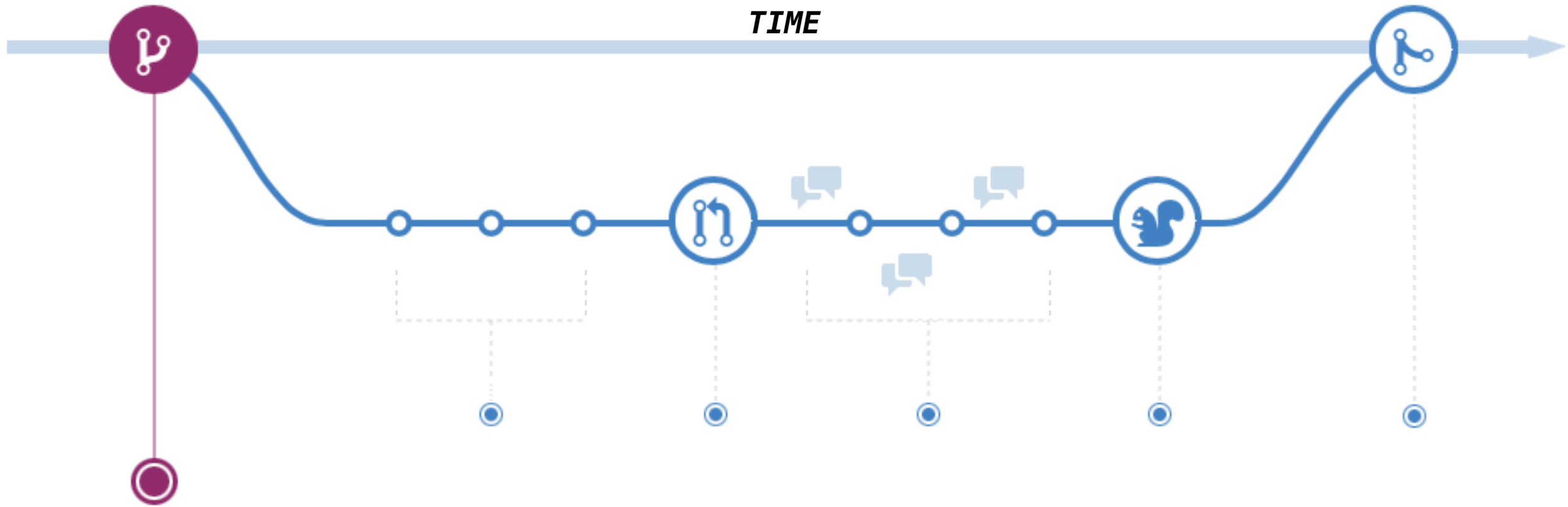
All in one repository

Two primary branches - permanent:

- main/master
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Sub-Branches that come and go

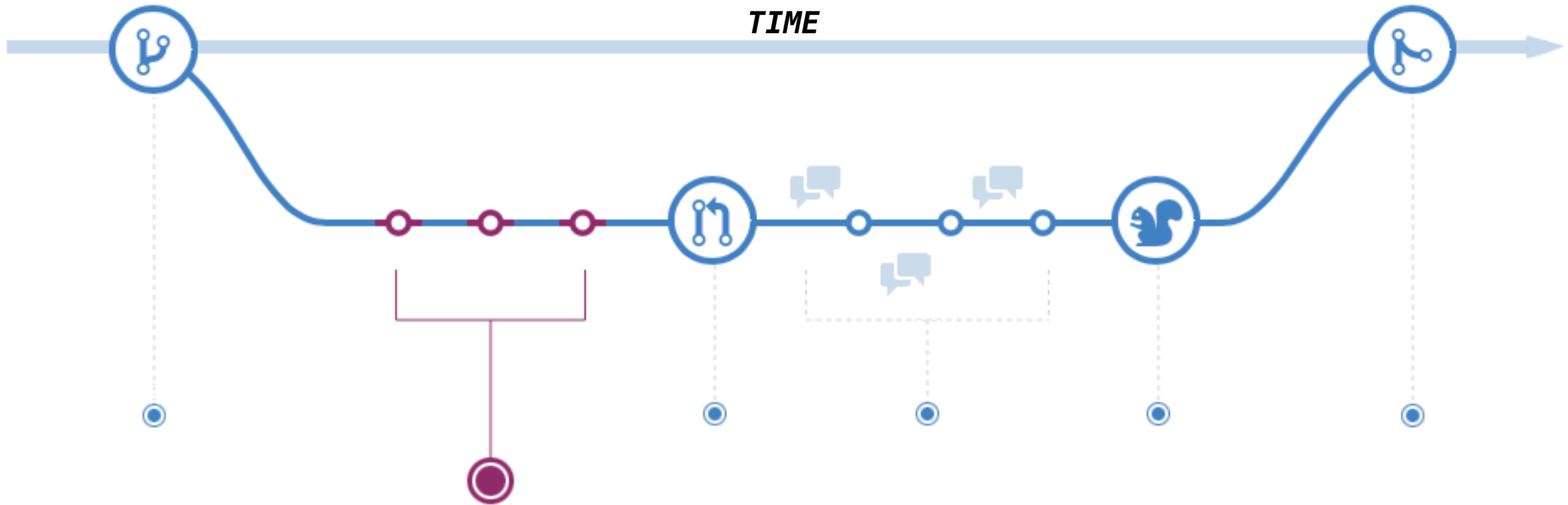
- features
- releases
- hotfixes



<https://guides.github.com/introduction/flow/>

# GITHUB FLOW

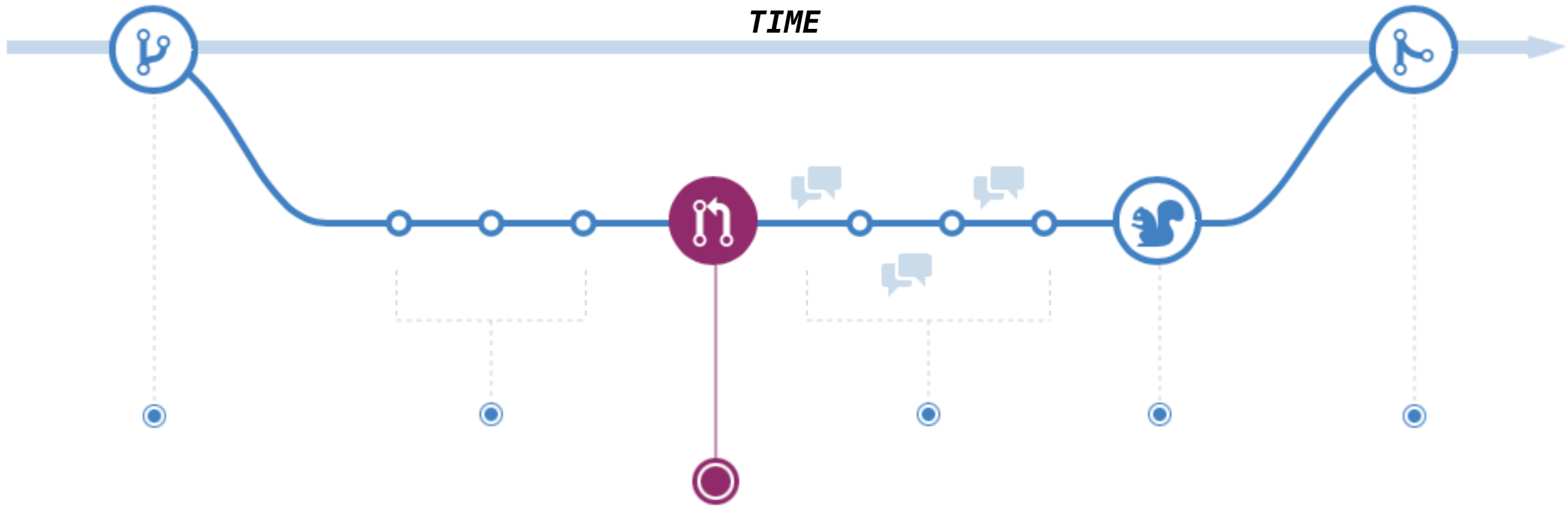
## 1. CREATE A BRANCH



<https://guides.github.com/introduction/flow/>

## GITHUB FLOW

### 2. ADD YOUR WORK USING COMMITS

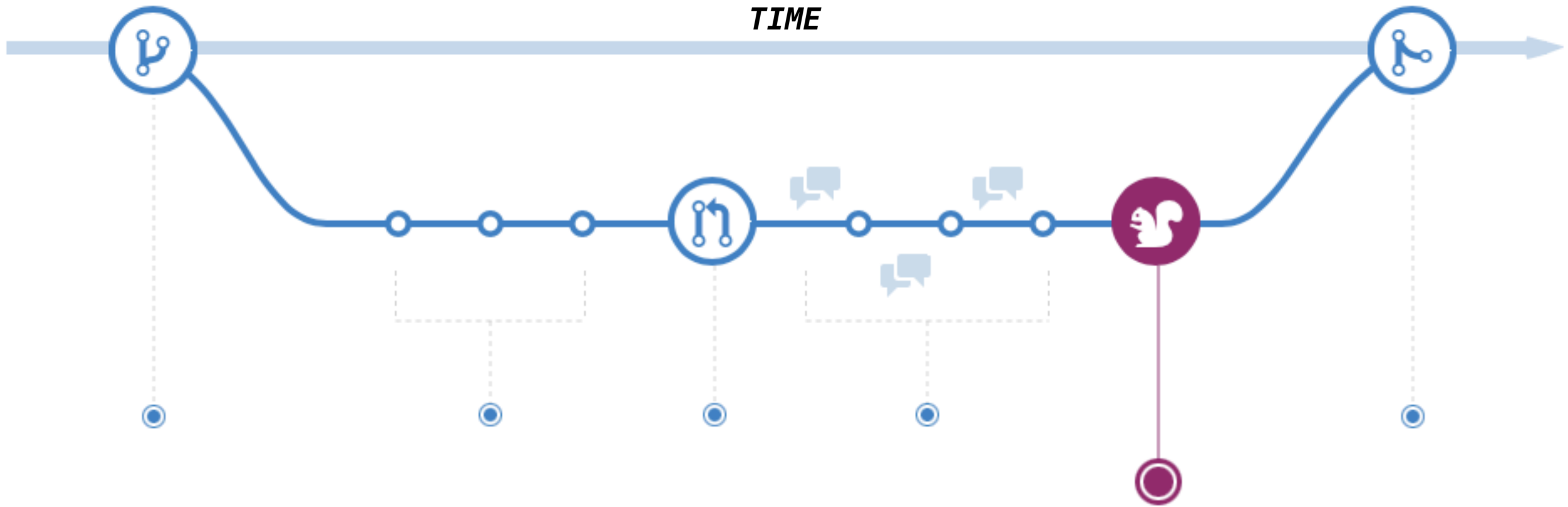


<https://guides.github.com/introduction/flow/>

## GITHUB FLOW

### 3. WHEN FINISHED, OPEN A PULL REQUEST

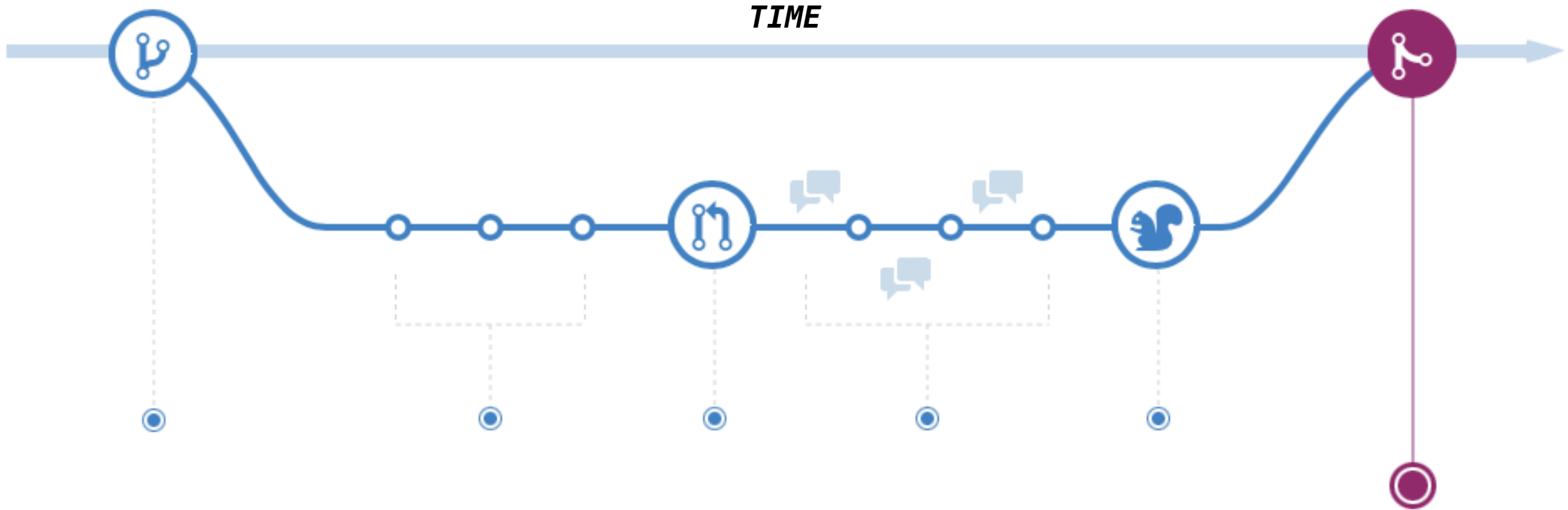




<https://guides.github.com/introduction/flow/>

## GITHUB FLOW

### 5. DEPLOY AND TEST IN PRODUCTION ENVIRONMENT



<https://guides.github.com/introduction/flow/>

# GITHUB FLOW

## 6. MERGE INTO **MAIN**

```
git log --graph --pretty=reference --date=short
```

```
* 6b9419f - added instructions to upload solution to Canvas (7 months ago) <Charles C Palmer>
* 575c51d - (origin/winter24, winter24) complete reorg of activities (7 months ago) <Charles C Palmer>
* a8613fc - Merge branch 'winter24' of https://github.com/cs50dartmouth/home-private into winter24 (7 months ago) <C
|\
| * 33a4dce - fixed old cs50 links (8 months ago) <CC Palmer>
* | 5f8e870 - working directory for adv gdb lecture (7 months ago) <Charles C Palmer>
|/
* 9fdcc0e - project link update (9 months ago) <CC Palmer>
* 6d3a612 - new activity 17 finished (9 months ago) <CC Palmer>
* 5a48b13 - new activity 17 on fuzz testing plus an article (9 months ago) <CC Palmer>
* 2197fa1 - removed extraneous :q (9 months ago) <CC Palmer>
* d522ca8 - restored labs? (9 months ago) <CC Palmer>
* 57b1443 - still fixing (9 months ago) <CC Palmer>
* a60e5b7 - Merge branch 'winter24' of https://github.com/cs50dartmouth/home-private into winter24 (9 months ago) <C
|\
| * 6bc53df - repaired indexer example (9 months ago) <Charles C Palmer>
* | 2b42fdd - removed L tags for 9th and 16th (9 months ago) <CC Palmer>
* | 84f6609 - new comics (9 months ago) <CC Palmer>
* | f1e4768 - schedule adjustments for travel (9 months ago) <CC Palmer>
* | 9bf4930 - new activity on fuzz testing (9 months ago) <CC Palmer>
* | 4e27ab9 - typo on Feb-12 (9 months ago) <CC Palmer>
|/
* 5249761 - git test (9 months ago) <Charles C Palmer>
```





# Activity 23