

Let's Ship This Thing! 🚀

By: Gary Ewan Park



Hello! I'm Scottish!



MS
Sucks

An orange heart graphic, drawn with thick, expressive brushstrokes, is positioned behind the text. The heart is slightly tilted and overlaps the letters of 'MS' and 'Sucks'.

Slides

<https://gep13.me/ShipltSlides>



Code

<https://gep13.me/ShipltCode>



Agenda

- What is an issue?
- What is Semantic Versioning?
- What branching strategy should I use?
- What is GitVersion?
- What is GitReleaseManager?
- Questions

Q

What is an
issue?

Demo

Q. What is an issue?

A

“...it is the focal point for work undertaken on a particular task/bug/feature in a product release.

Q

What is **Semantic Versioning?**

A

“...a simple set of rules and requirements that dictate how version numbers are assigned and incremented. These rules are based on, but not necessarily limited to, pre-existing widespread common practices in use in both closed and open-source software.

The Rules

Given a version number MAJOR.MINOR.PATCH, increment the:

- MAJOR version when you make incompatible API changes
- MINOR version when you add functionality in a backwards-compatible manner
- PATCH version when you make backwards-compatible bug fixes

Additional labels for pre-release and build metadata are available as extensions to the MAJOR.MINOR.PATCH format.

Examples

- 0.1.0
- 0.3.13
- 1.0.0
- 0.2.0-alpha.3
- 0.2.0-alpha.3+Branch.develop.Sha.e6eb071cd30974b80d7e237b85e7729a1d791e1e

Q

How do you know
when to bump
a version number?

Tools

- [PublicApiGenerator](#)
- [Microsoft.CodeAnalysis.PublicApiAnalyzers](#)

Q. How do you know when to bump a version number?

A

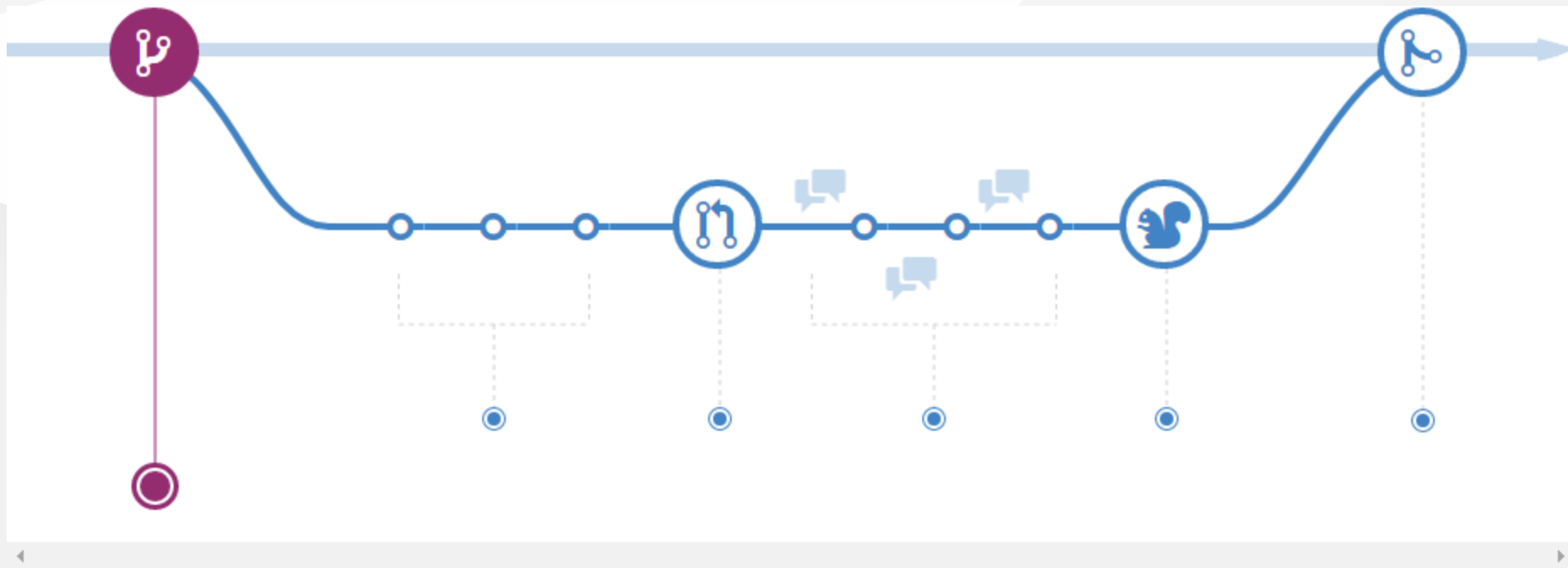
There is no quick answer 🙄

Q

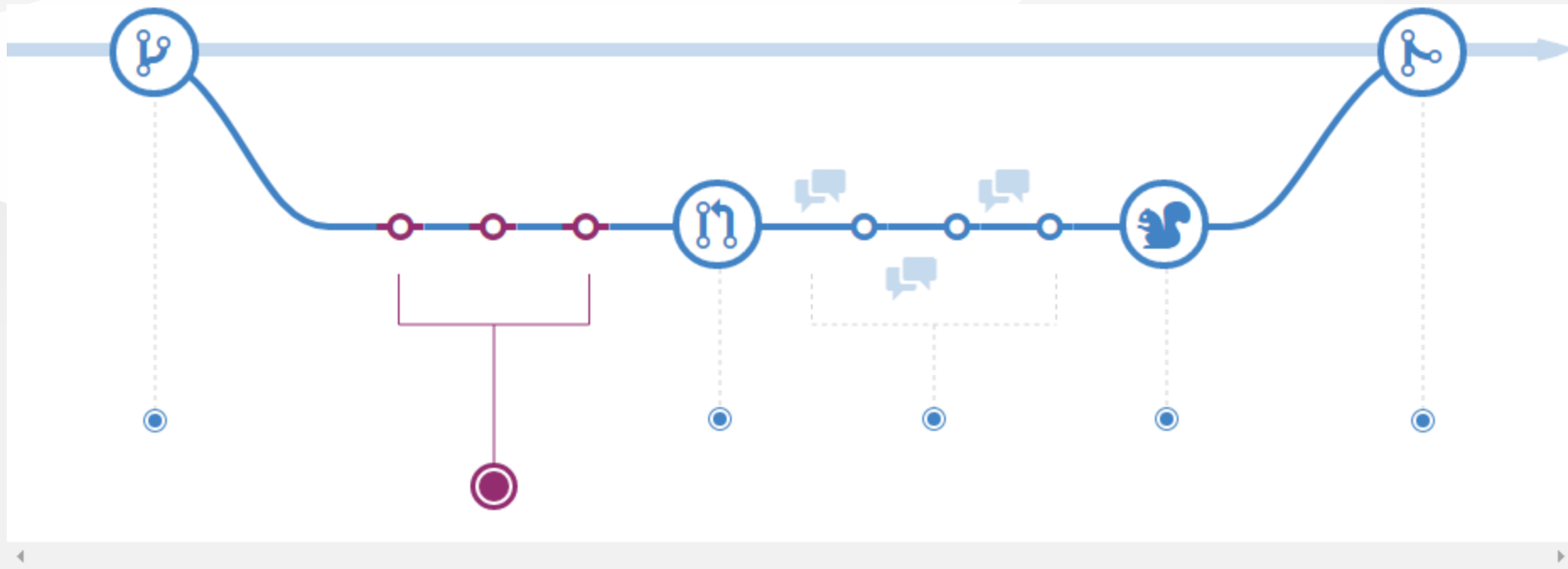
What
branching strategy
should I use?

GitHub Flow

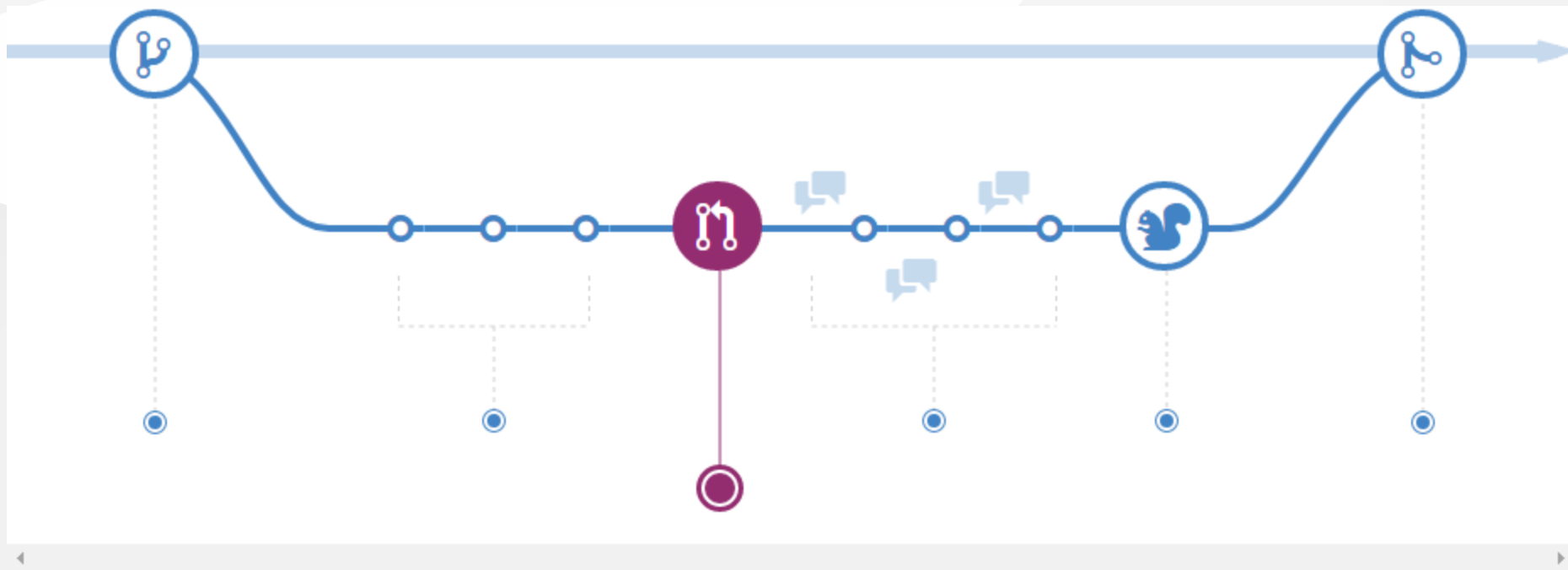
Create a branch



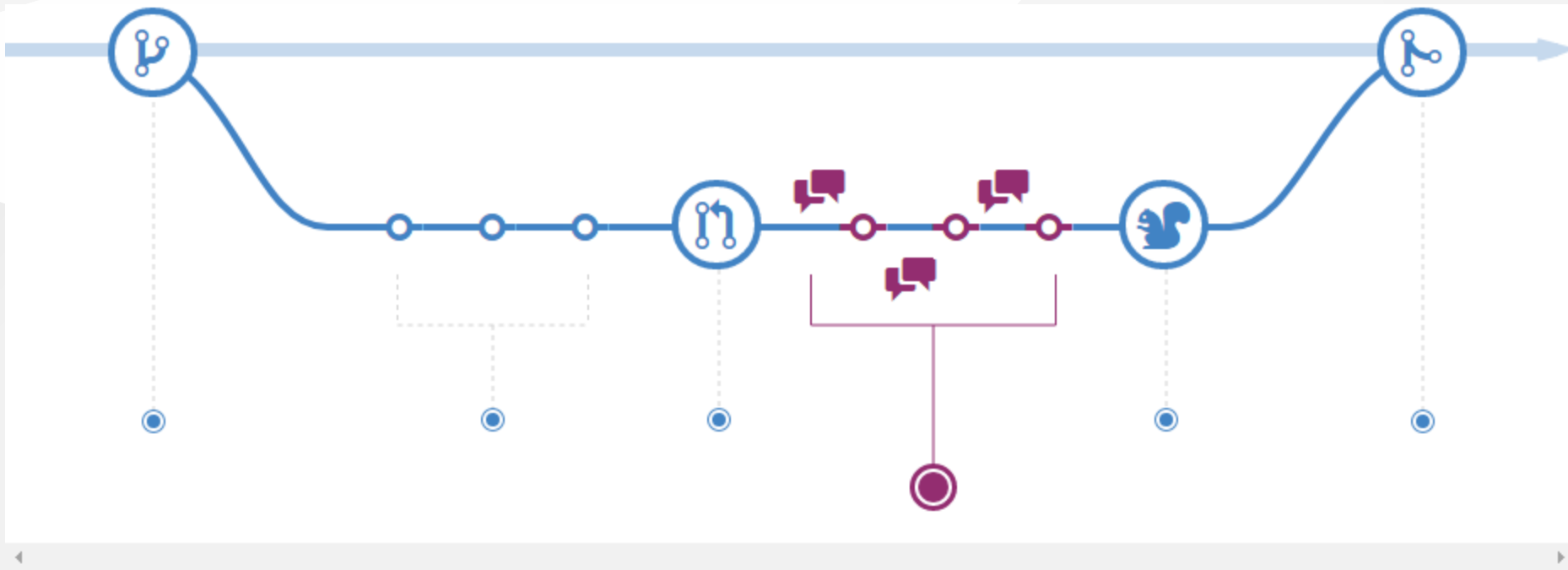
Add commits



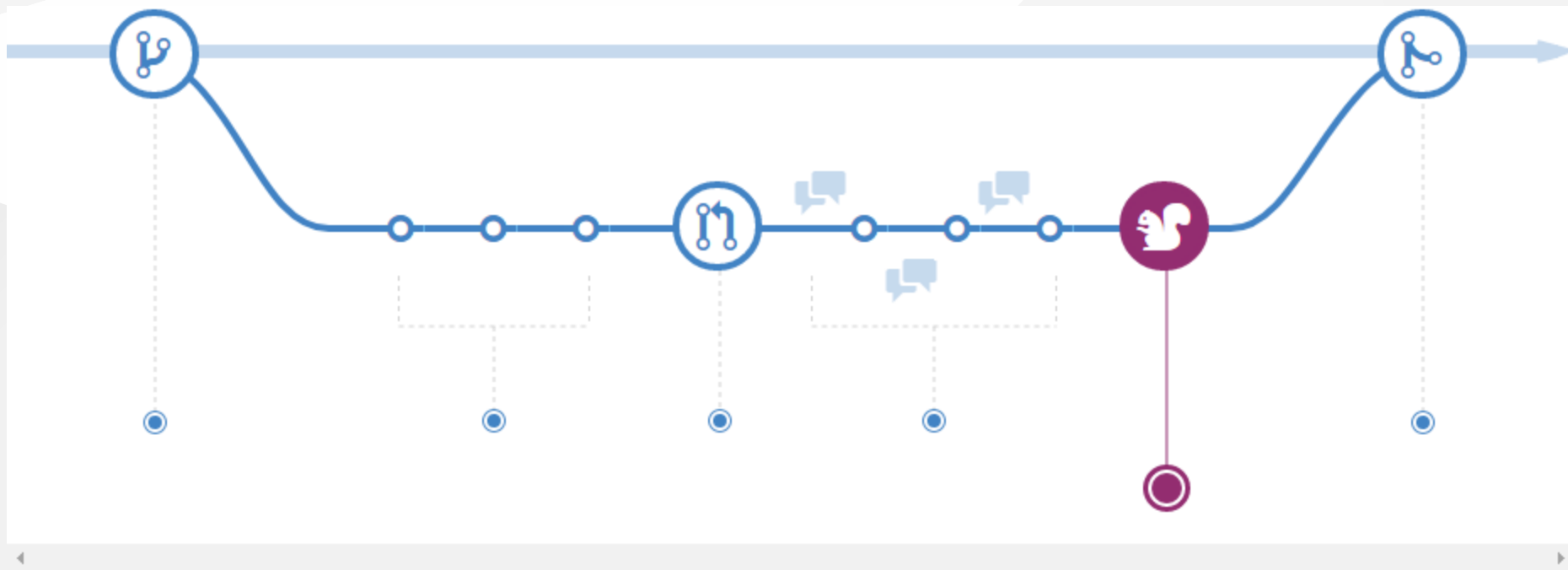
Open a Pull Request



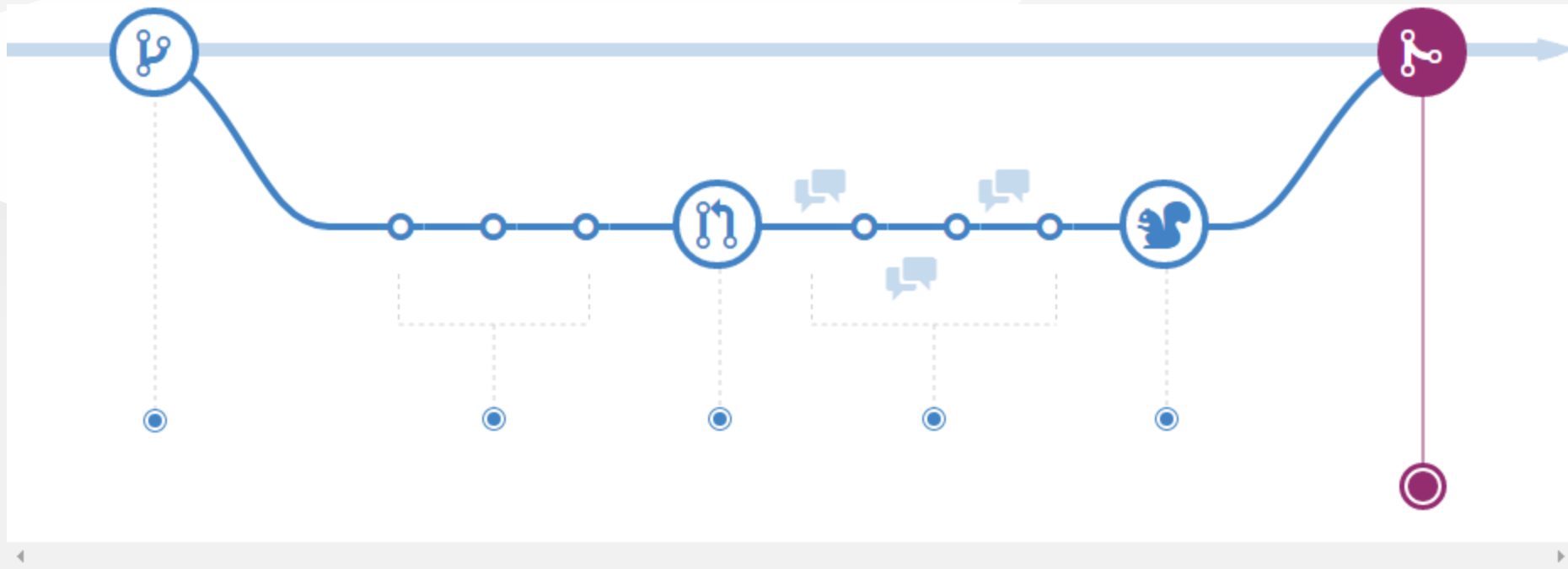
Discuss and review your code



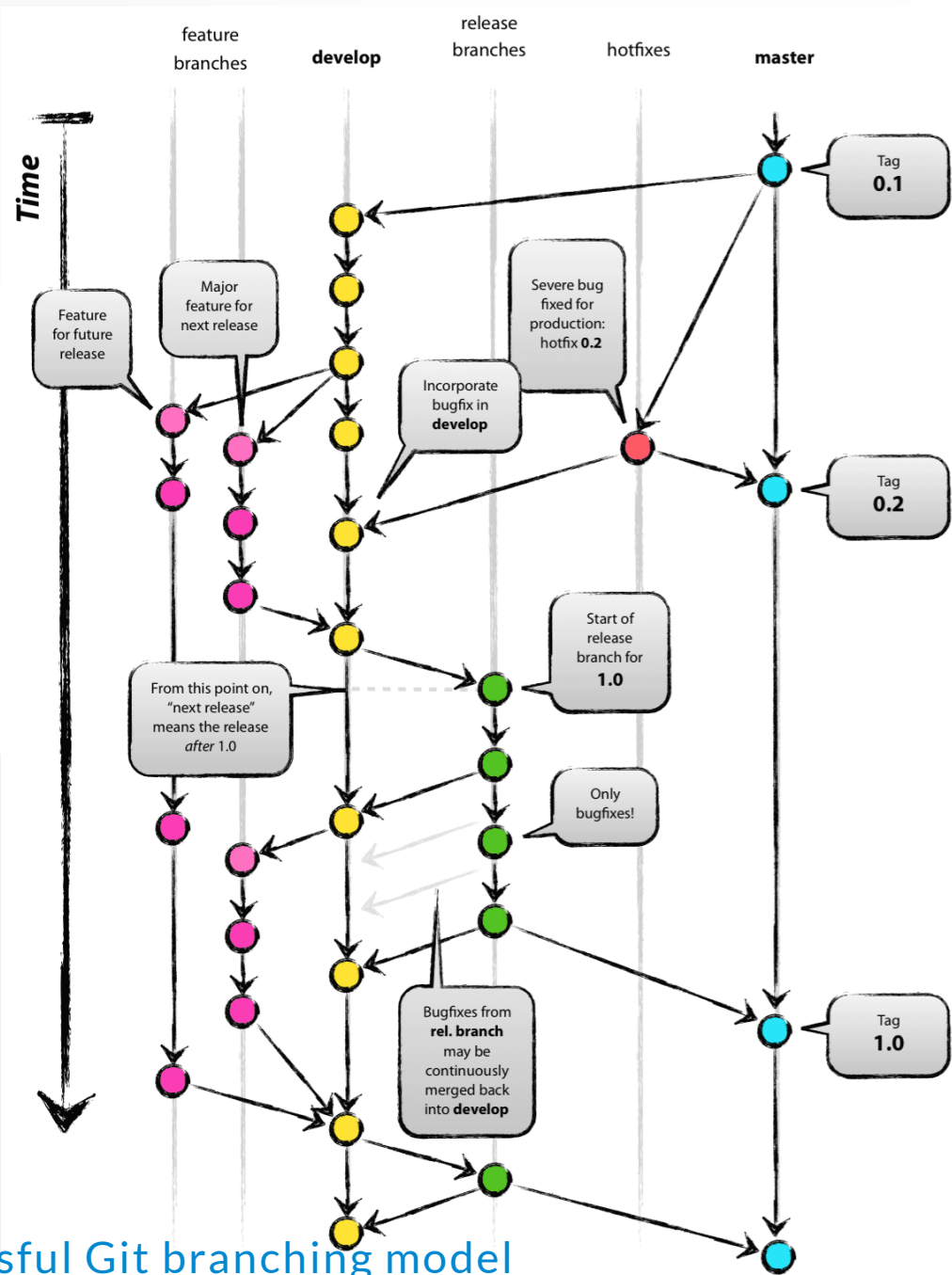
Deploy



Merge

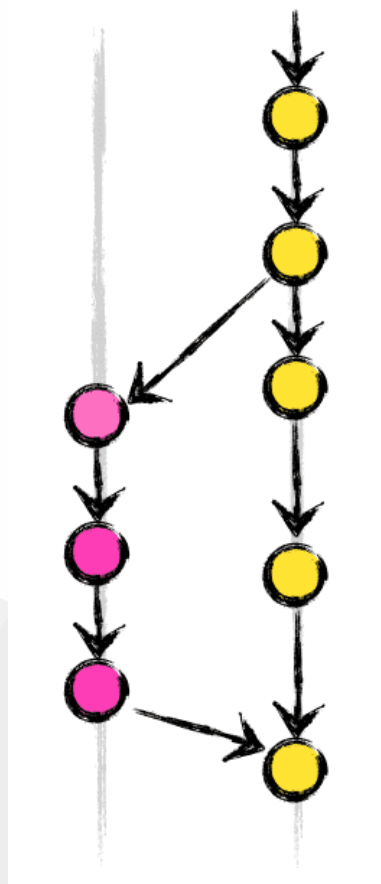


GitFlow



Images borrowed from [A successful Git branching model](#)

feature
branches develop



Q. What branching strategy should I use?

A

It depends! 🧑

Q

What is
GitVersion?

Q. What is GitVersion?
















A

**“...a tool to help you achieve
Semantic Versioning on your project.”**

Demo

Q

Why do I need
GitVersion?

Name	Date modified	Type	Size
 .git	22/06/2015 11:13	File folder	
 BuildScripts	22/06/2015 11:13	File folder	
 Documentation	22/06/2015 11:13	File folder	
 Prototypes	22/06/2015 11:13	File folder	
 Source	17/07/2015 09:45	File folder	
 SQL Scripts	22/06/2015 11:13	File folder	
 Testing	22/06/2015 11:13	File folder	
 Tools	22/06/2015 11:13	File folder	
 .editorconfig	22/06/2015 11:13	EDITORCONFIG File	1 KB
 .gitattributes	22/06/2015 11:13	Text Document	1 KB
 .gitignore	22/06/2015 11:13	Text Document	3 KB
 build.bat	22/06/2015 11:13	Windows Batch File	1 KB
 generateHelp.bat	22/06/2015 11:13	Windows Batch File	1 KB
 README.md	22/06/2015 11:13	MD File	1 KB
 version.txt	02/09/2015 20:02	Text Document	0 KB


```
[assembly: AssemblyTrademark("")]  
[assembly: AssemblyCulture("")]  
[assembly: NeutralResourcesLanguage("en-GB")]  
  
[assembly: AssemblyVersion("0.2.0.0")]  
[assembly: AssemblyFileVersion("0.2.0.0")]  
[assembly: AssemblyInformationalVersion("0.2.0.0")]
```

Administration > <Root project> > CIDemo > Create Build Configuration

General Settings

Name: ^{*} Our First Build Configuration

Build configuration ID: [?] CIDemo_OurFirstBuildConfiguration


This ID is used in URLs, REST API, HTTP requests to the server, and configuration settings in the TeamCity Data Directory.

Description: This will build and test our CIDemo Project

Build number format: ^{*} [?] %build.counter% 

The format may include '%build.counter%' as a placeholder for the build counter value, for example, 1.%build.counter%.
It may also contain a reference to any other available parameter, for example, %build.vcs.number.VCSRootName%.
Note: The maximum length of a build number after all substitutions is 256 characters.

Build counter: ^{*} [?] 1 [Reset counter](#)

Artifact paths: [?] Edit artifact paths:


Newline- or comma-separated paths to build artifacts. Ant-style wildcards like `dir/**/*.zip` and target directories like `*.zip => winFiles, unix/distro.tgz => linuxFiles`, where `winFiles` and `linuxFiles` are target directories are supported.

Build options: [?] ☒ enable hanging builds detection
☐ enable status widget [?]

Limit the number of simultaneously running builds (0 — unlimited) 0

[VCS settings >>](#)

[Cancel](#)



Q. Why do I need GitVersion?

A

**To make version assertion
reliable and consistent**

Q

What is
GitReleaseManager?

Q. What is GitReleaseManager?

A





“...a tool that will help create, and manage, a release for your application/product.

Demo



Gary Ewan Park

Principal Software Engineer
Chocolatey Software, Inc

-  Twitter: [@gep13](https://twitter.com/gep13)
-  Bluesky: [@gep13.co.uk](https://bsky.app/profile/gep13.co.uk)
-  Blog: <https://gep13.co.uk>
-  GitHub: [gep13](https://github.com/gep13)

Questions

Learn More

- GitVersion Documentation
 - <https://gitversion.net/docs/>
- GitReleaseManager Documentation
 - <https://gittools.github.io/GitReleaseManager/docs/>
- Git Branching Strategies
 - <https://www.atlassian.com/git/tutorials/comparing-workflows>
- GitFlow
 - <https://nvie.com/posts/a-successful-git-branching-model/>