Control your GitHub releases with GitVersion and GitReleaseManager

Slides

https://gep13.me/GitHubReleasesSlides



Code

https://gep13.me/GitHubReleasesCode

Agenda

• What is Semantic Versioning?

- What is Semantic Versioning?
- What branching strategy should I use?

- What is Semantic Versioning?
- What branching strategy should I use?
- What is GitVersion?

- What is Semantic Versioning?
- What branching strategy should I use?
- What is GitVersion?
- Why do I need GitVersion?

- What is Semantic Versioning?
- What branching strategy should I use?
- What is GitVersion?
- Why do I need GitVersion?
- What is GitReleaseManager?

- What is Semantic Versioning?
- What branching strategy should I use?
- What is GitVersion?
- Why do I need GitVersion?
- What is GitReleaseManager?
- Putting it all together...



What is

Sematic Versioning?

66 ... 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.

• 0.1.0

- 0.1.0
- 0.3.13

- 0.1.0
- 0.3.13
- 1.0.0

- 0.1.0
- 0.3.13
- 1.0.0
- 0.2.0-unstable3

- 0.1.0
- 0.3.13
- 1.0.0
- 0.2.0-unstable3
- 0.2.0-unstable.3+Branch.develop.Sha.e6eb071cd30974b80d7e237b85e7729a1d791e1e

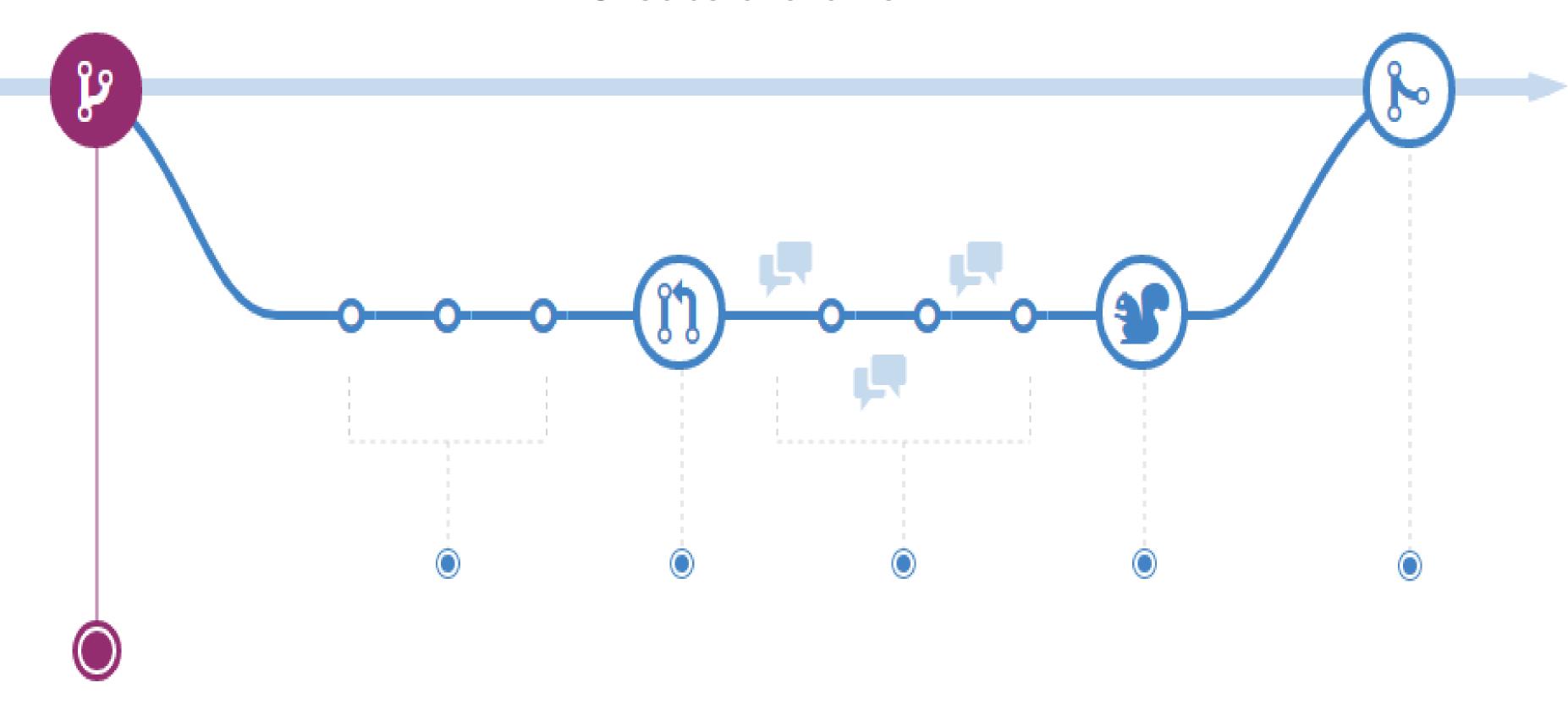


What

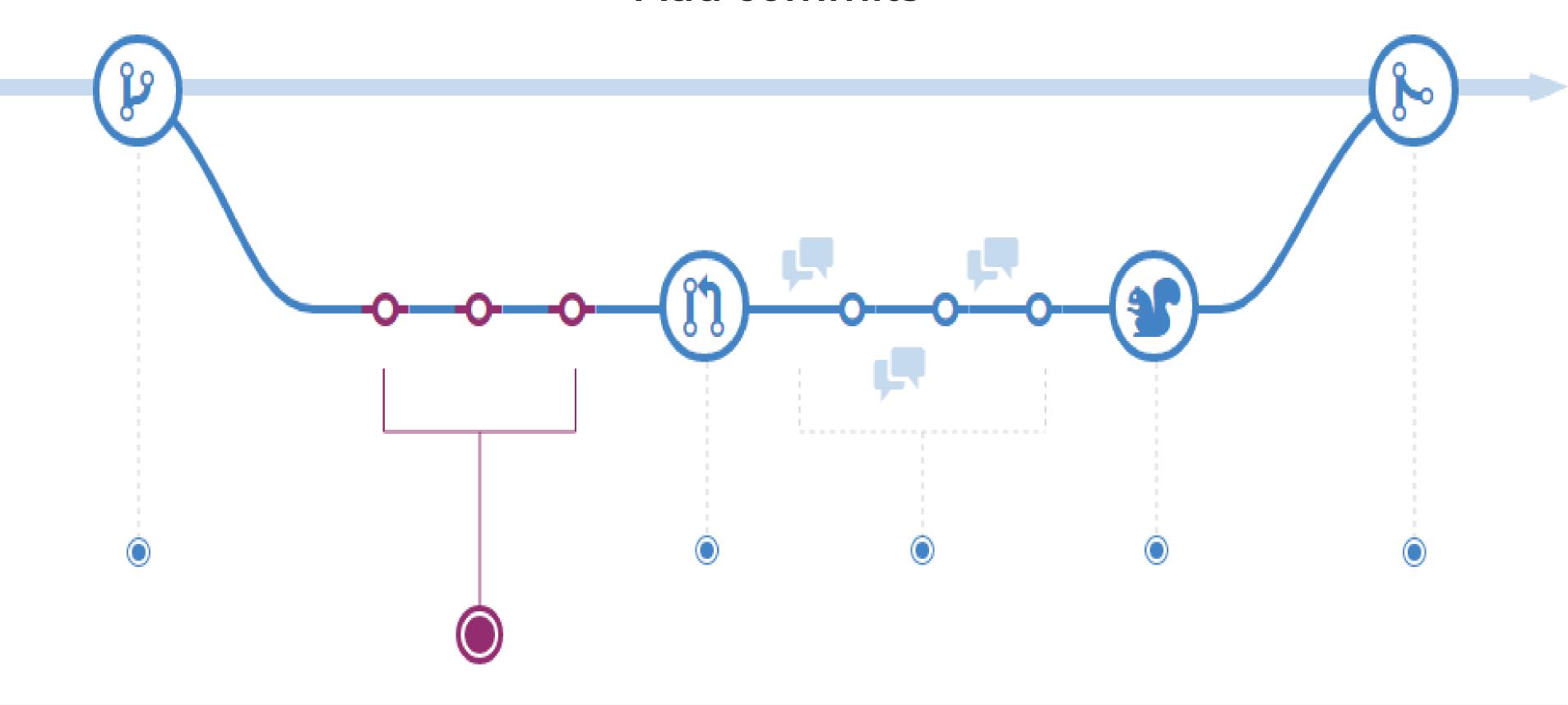
branching strategy should I use?

GitHub Flow

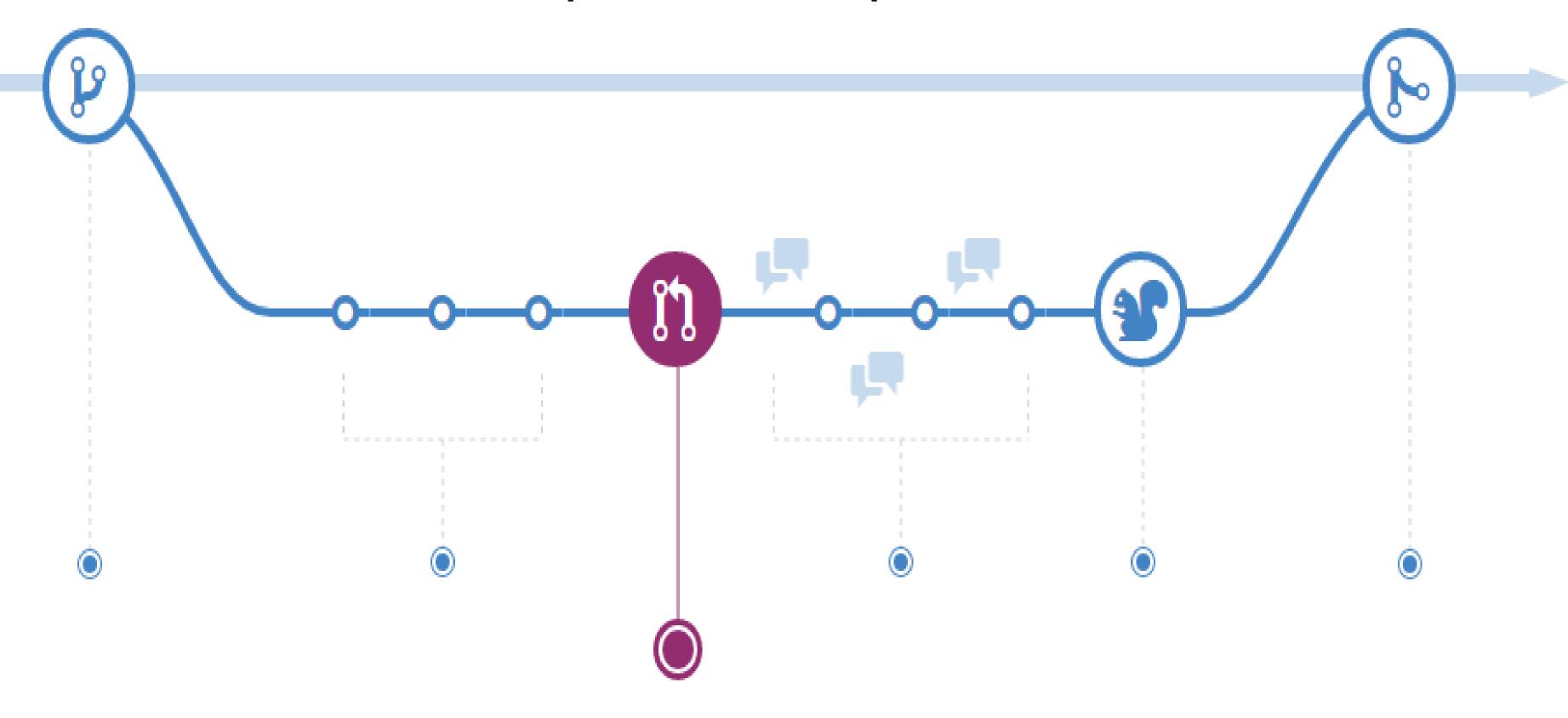
Create a branch



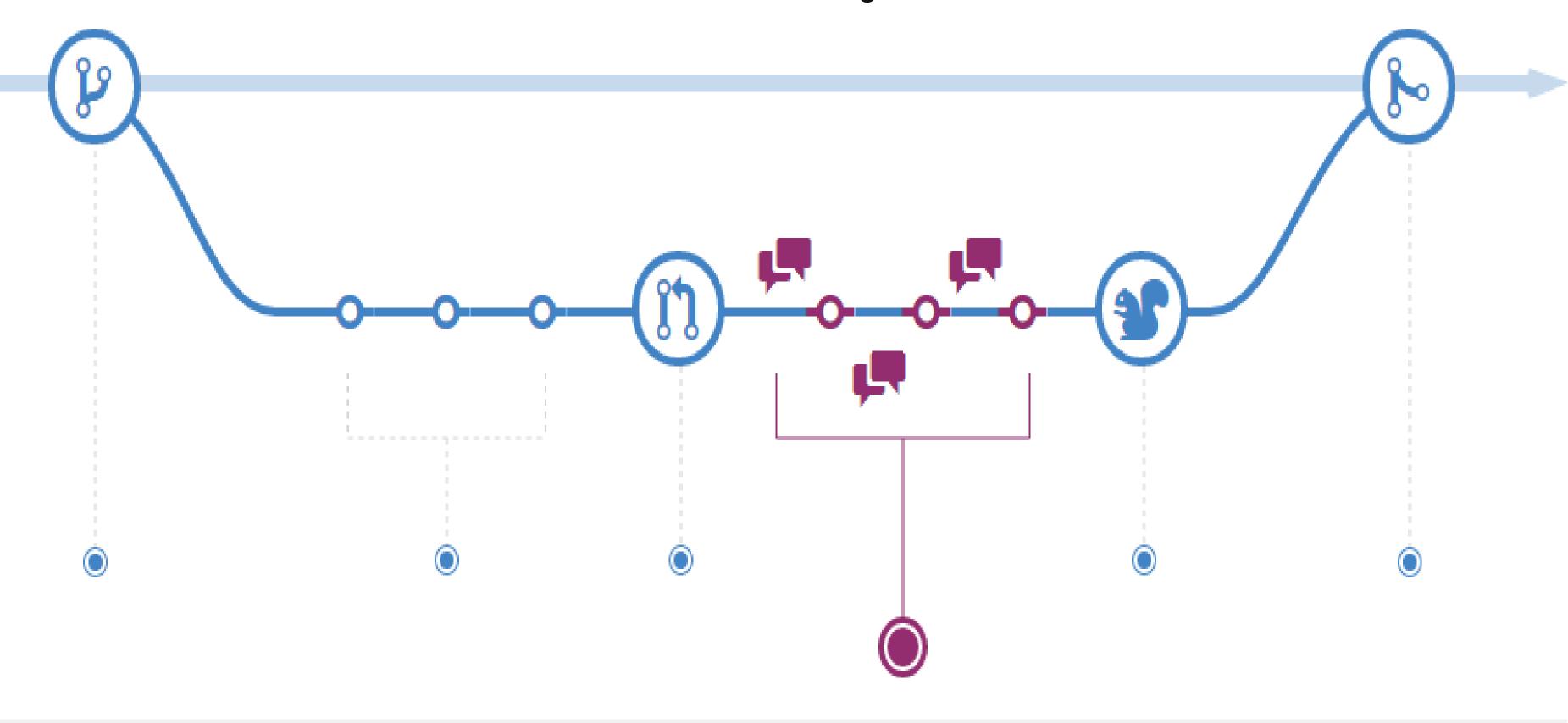
Add commits



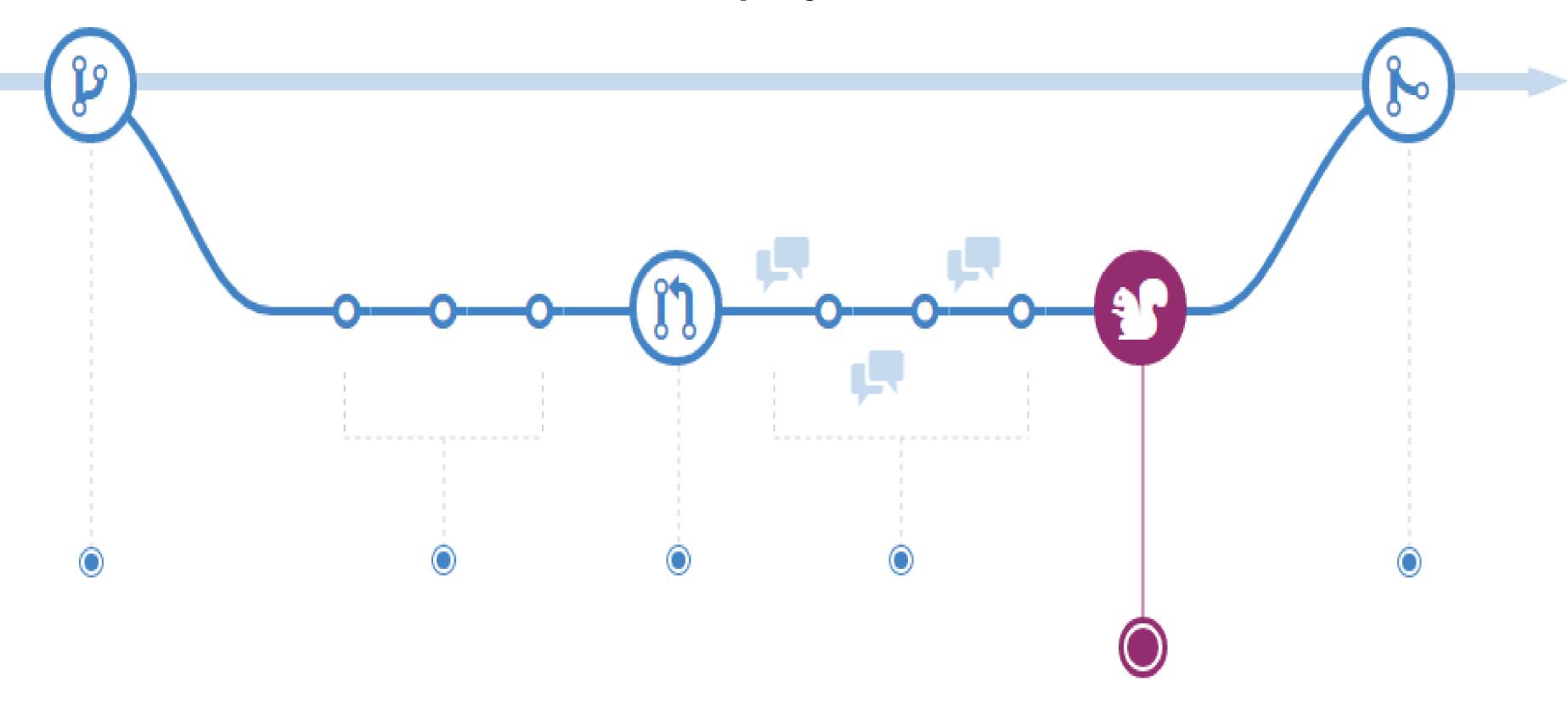
Open a Pull Request



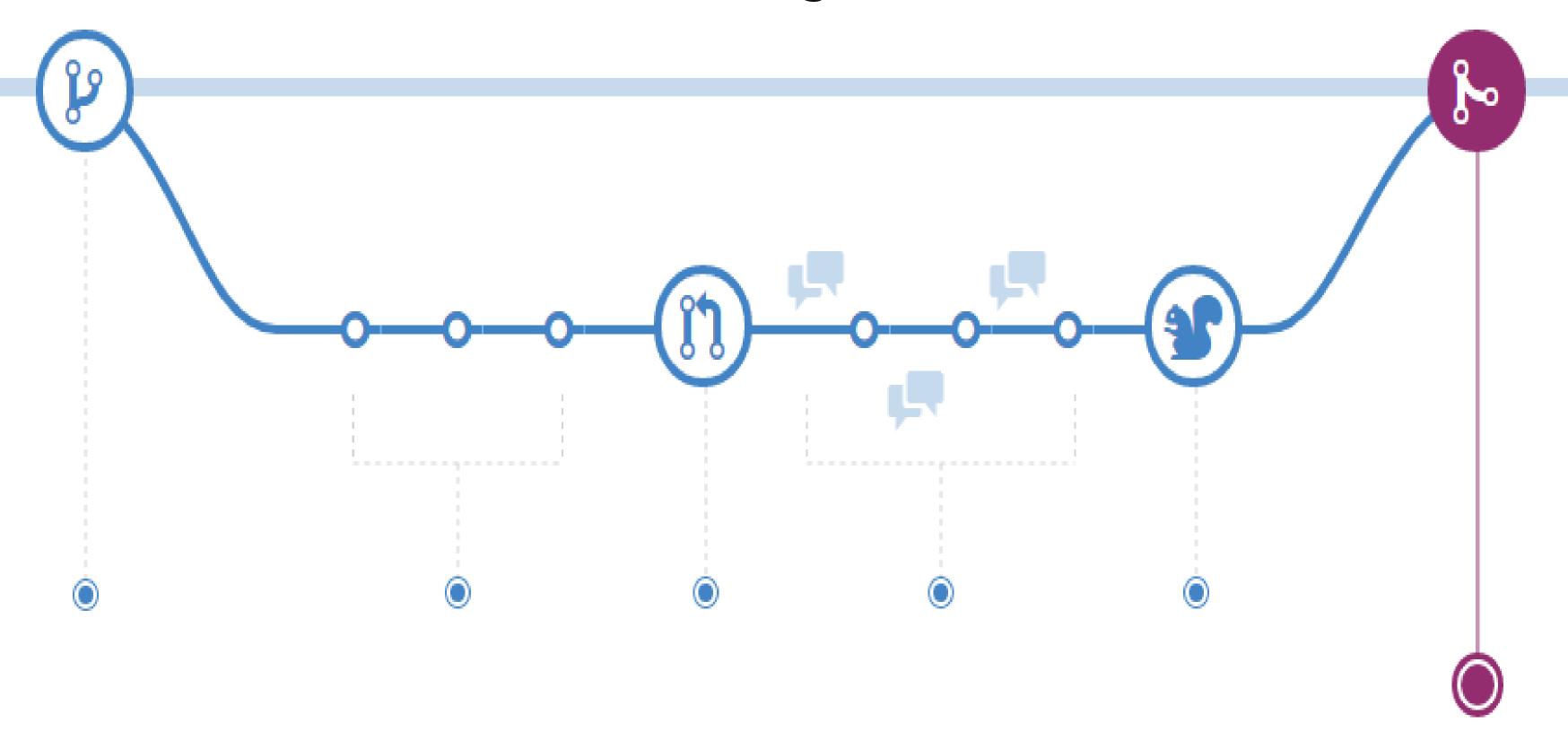
Discuss and review your code



Deploy

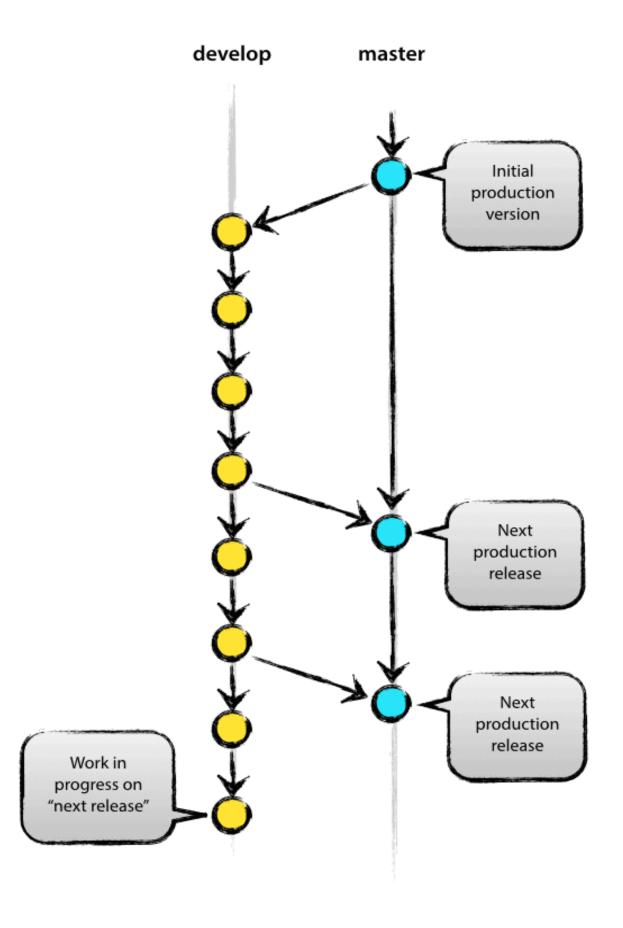


Merge

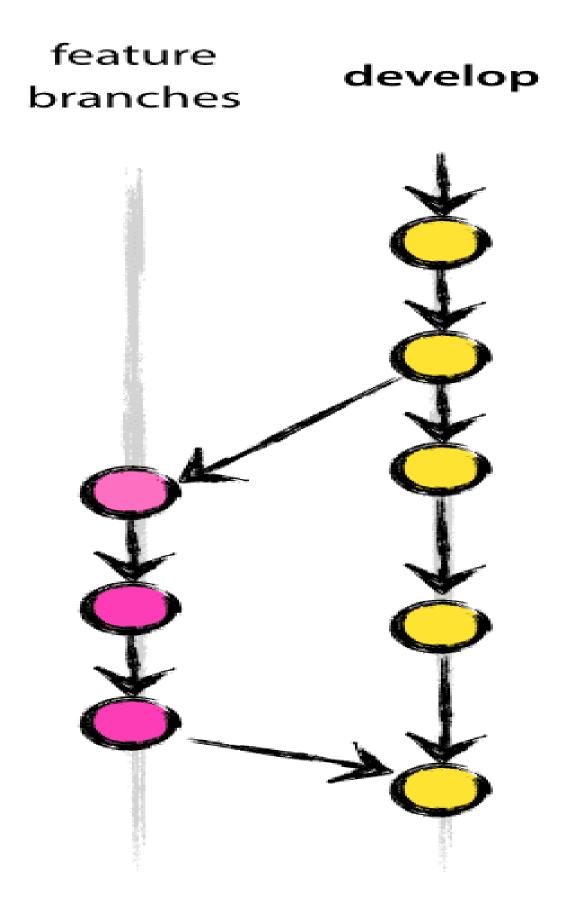


GitFlow

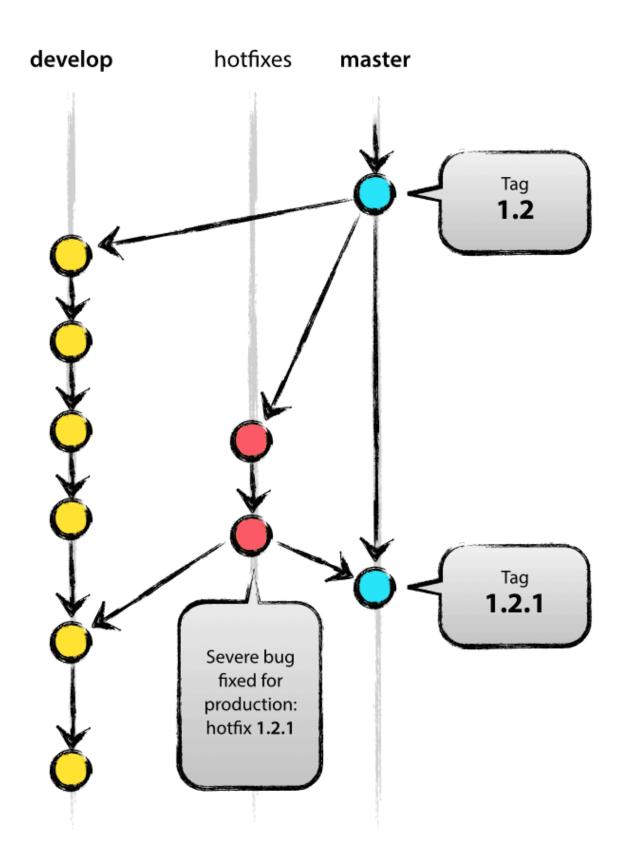
Two Main Branches



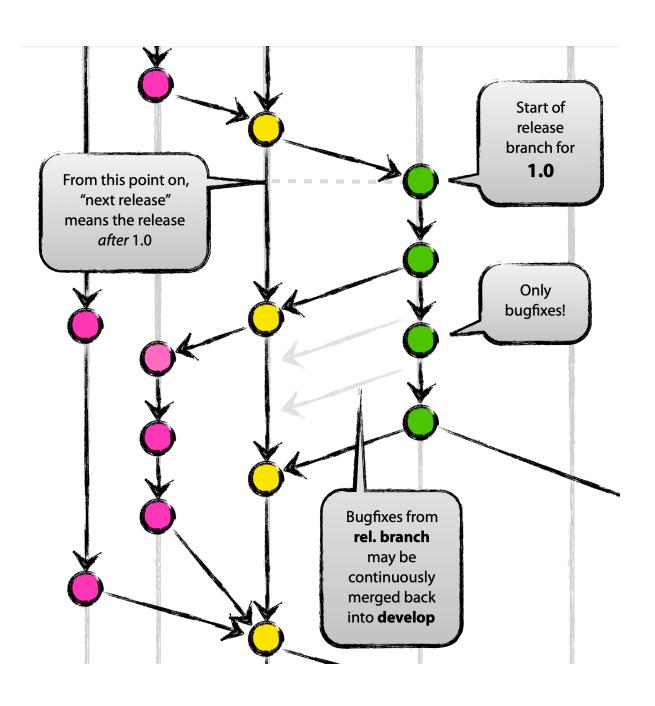
Feature Branches



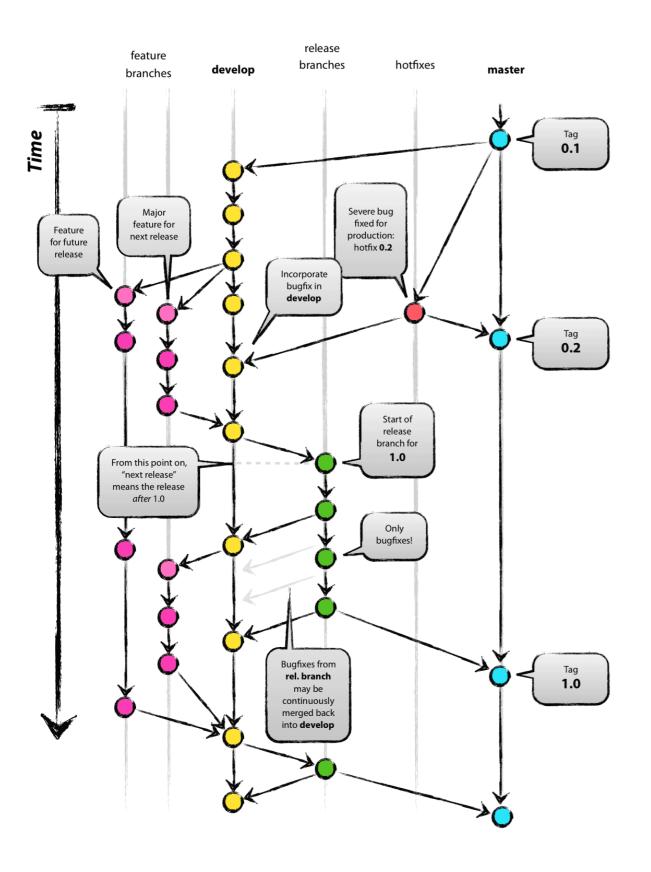
Hotfix Branches



Release Branches



Overview





What is GitVersion ?

Q. What is GitVersion?

66...is a tool to help you achieve Semantic Versioning on your project.

Ok, but really, what is it?

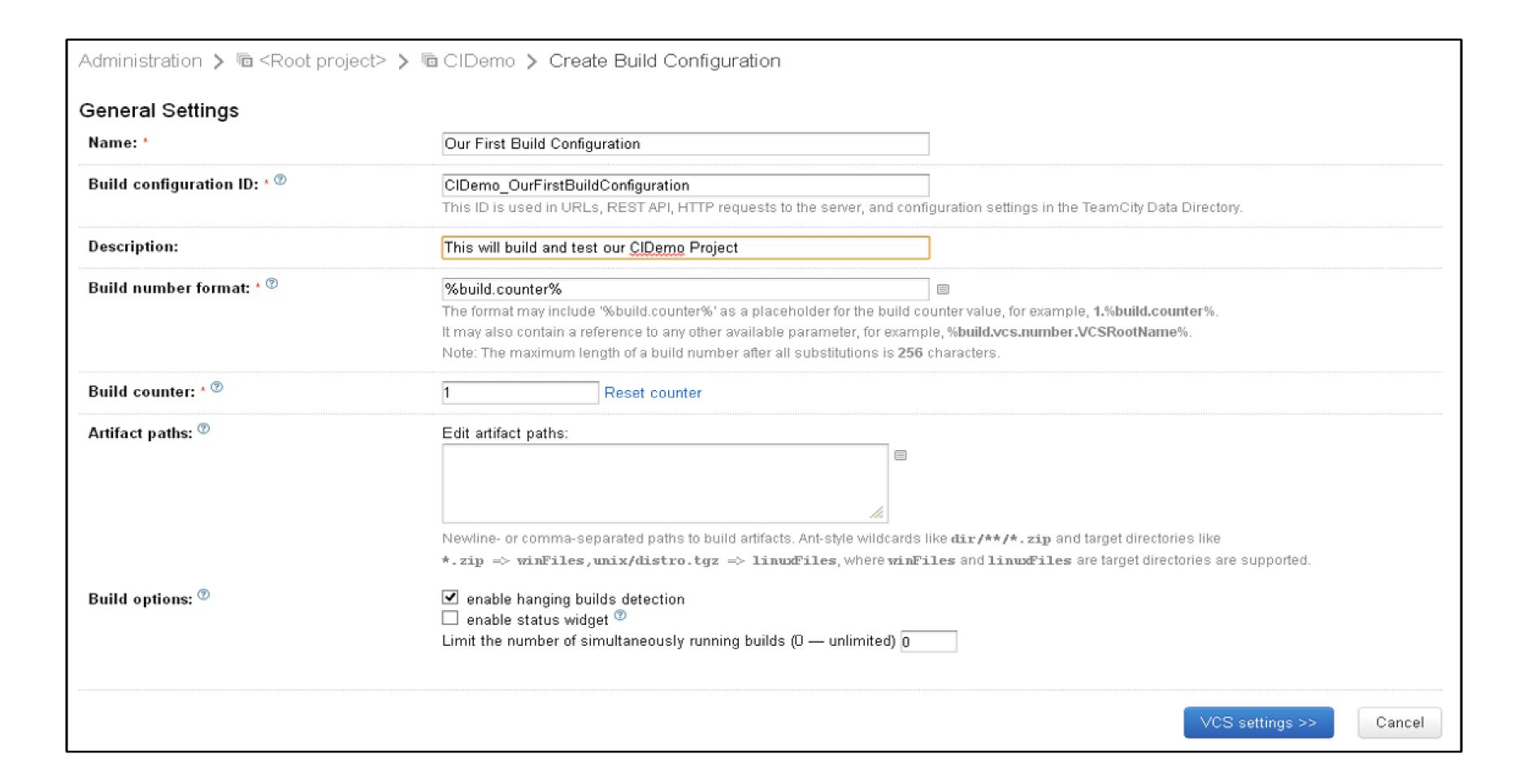


Why do I need



Name	Date modified	Туре	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	
III 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 .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")]
```









What is

GitReleaseManager?

of release notes for your application/product. It does this using the collection of issues which are stored on the GitHub Issue Tracker for your application/product.

Ok, but really, what is it?

Putting it all together...

Questions

Feel free to get in touch

Email: gep13@gep13.co.uk

Twitter: @gep13

Web: https://www.gep13.co.uk

Who am I?

Senior Software Engineer @ Chocolatey Software





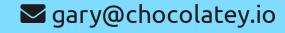












Learn More

- GitVersion Documentation
 - https://gitversion.net/docs/
- .Net Rocks Episode with Jake Ginnivan
 - https://www.dotnetrocks.com/default.aspx?showNum=1178
- Git Branching Strategies
 - https://www.atlassian.com/git/tutorials/comparing-workflows
- GitFlow
 - https://nvie.com/posts/a-successful-git-branching-model/