# Control your GitHub releases with GitVersion and GitReleaseManager

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# Agenda

What is Semantic Versioning?

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- Why do I need GitVersion?
- What is GitReleaseManager?
- Putting it all together...

# What is Semantic Versioning?

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	$\mathbf{G}$	ion

"...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
- 1.0.0

- 0.1.0
- 1.0.0
- 0.3.13

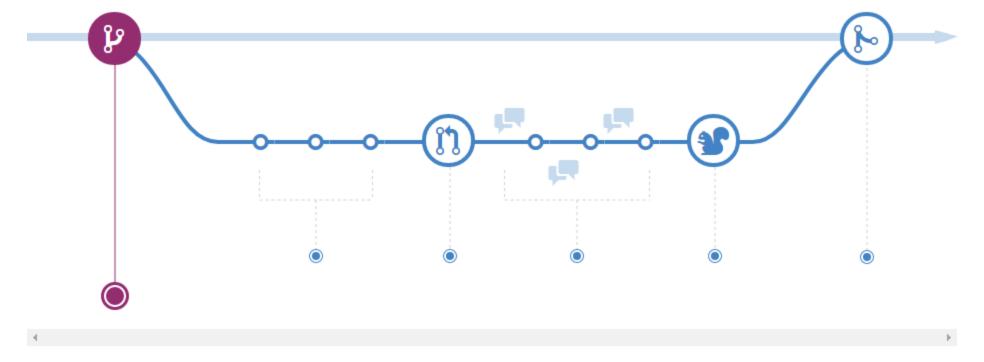
- 0.1.0
- 1.0.0
- 0.3.13
- 0.2.0-unstable3

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

# What branching strategy should I use?

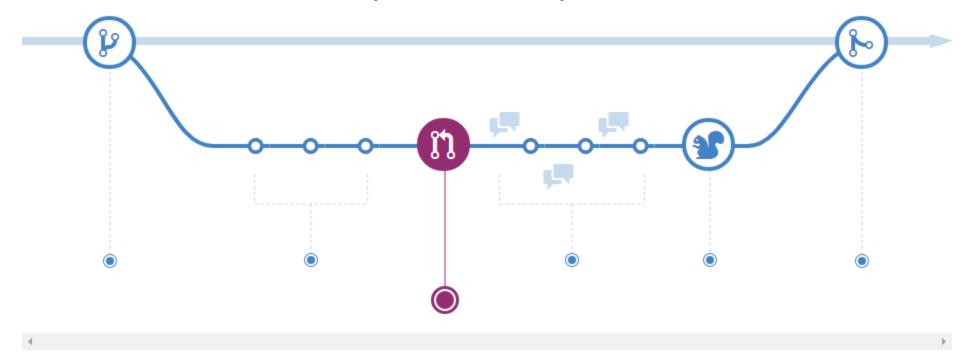
# **GitHub Flow**

### Create a branch

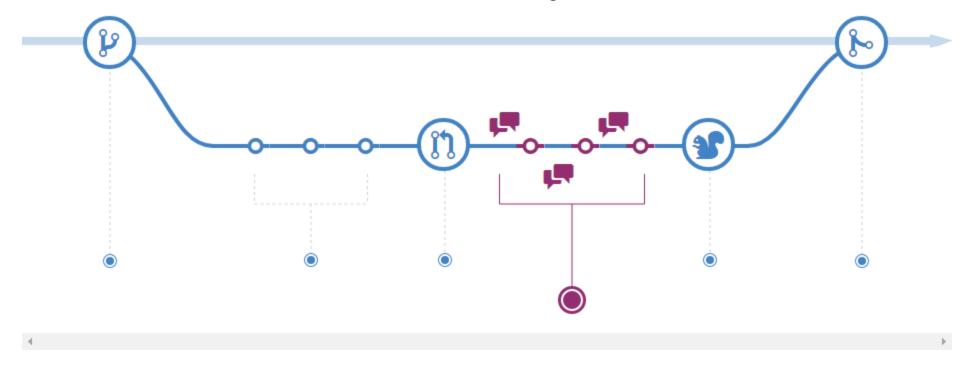


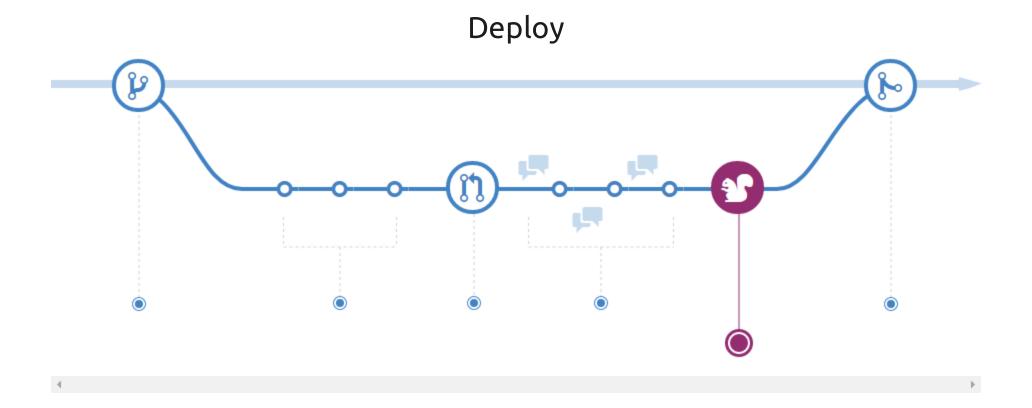
# Add commits Property of the commits of the commits

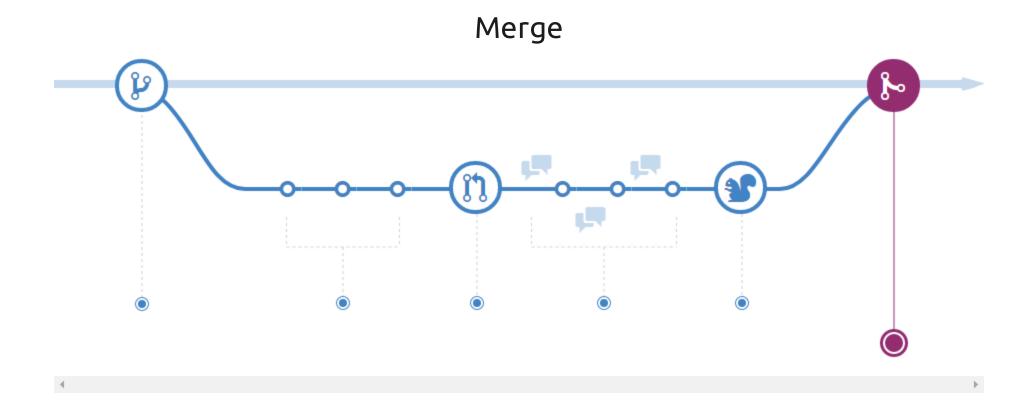
### Open a Pull Request



### Discuss and review your code

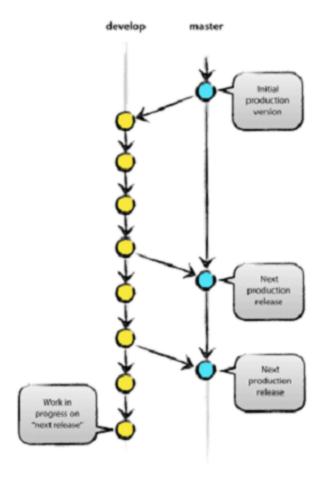




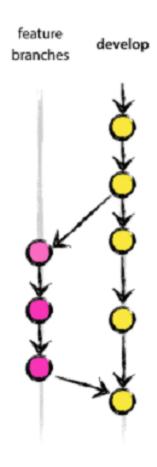


# **GitFlow**

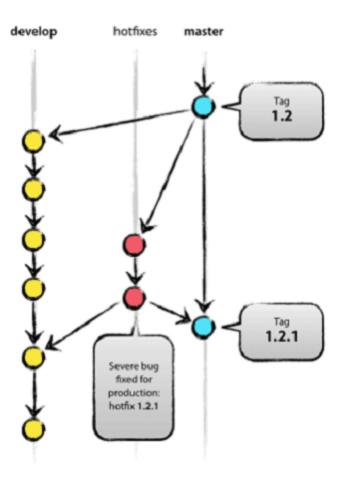
### Two Main Branches



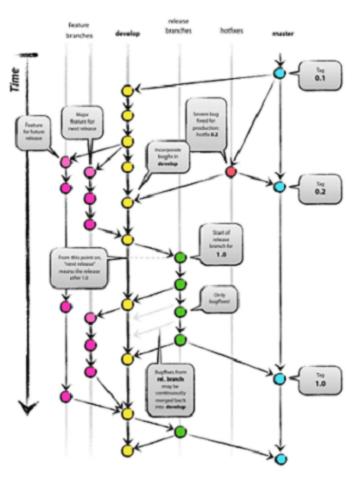
### Feature Branches



### **Hotfix Branches**



### Overview



## What is GitVersion?

### A defintion...

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

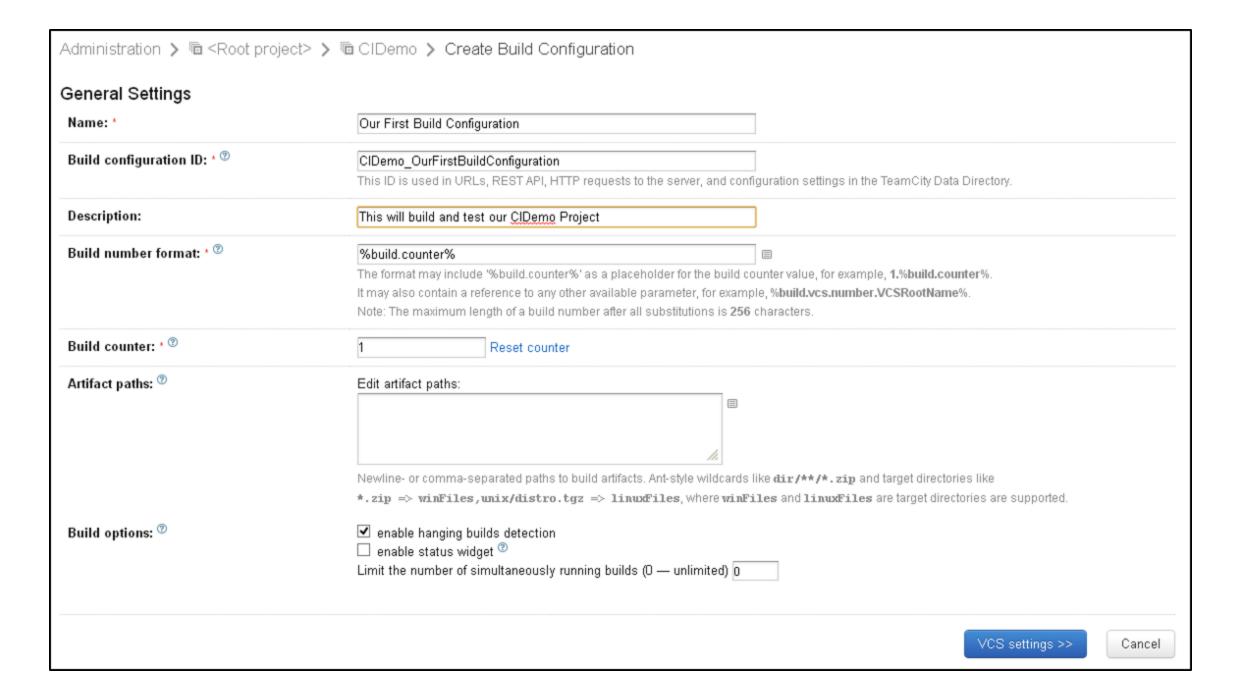
Ok, but really, what is it?

# 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
igitignore	22/06/2015 11:13	Text Document	3 KB
uild.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?

### A definition...

"...is a tool that will help create a set 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...

### Demo

# Questions?

Feel free to get in touch Email: gep13@gep13.co.uk

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### Thank you!

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### Resources

- GitVersion Documentation
  - http://gitversion.readthedocs.org/en/latest/
- .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
  - http://nvie.com/posts/a-successful-git-branching-model/