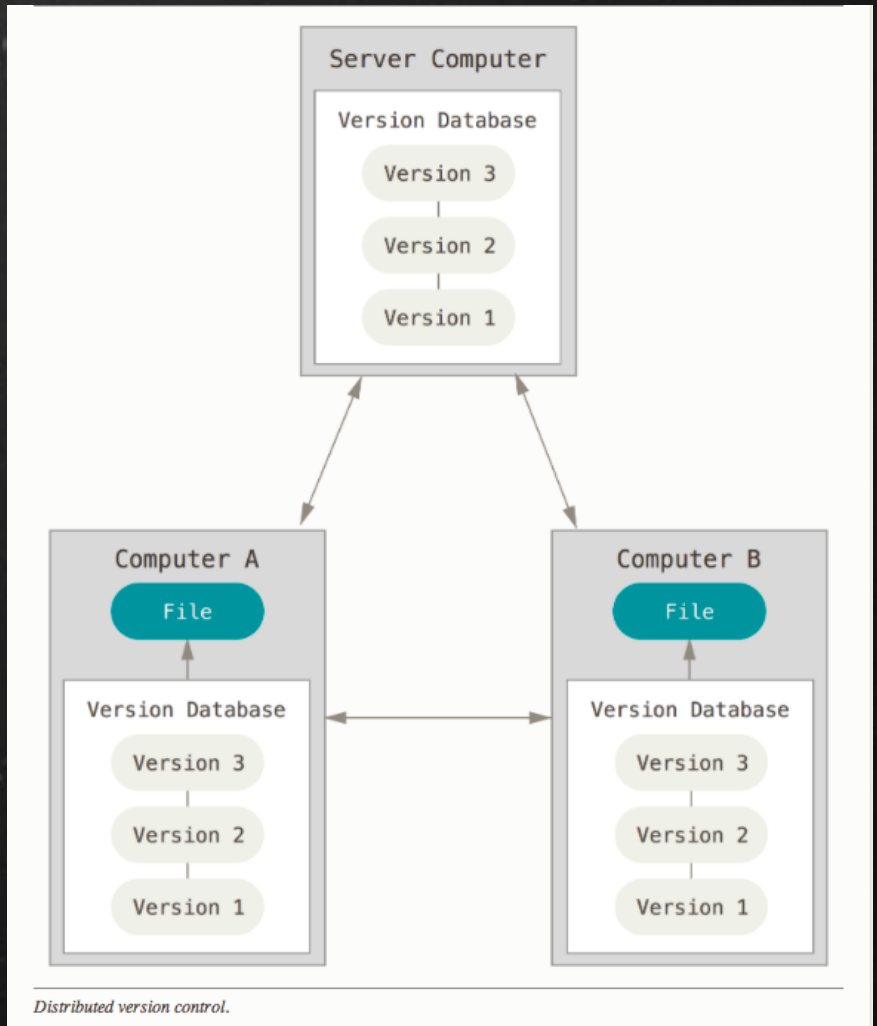
GIT & R

Gitting Started

GIT: Distributed Version Control System



Distributed version control.

GIT: Strengths

Speed

Simple design

Strong support for non-linear development (branches)

Fully distributed

Handle large projects (e.g., Linux kernel) efficiently

Why: The Usual Reasons

My dog ate my code

Why: The More Interesting

Test new ideas without breaking a working project

Integrate new development into working project

Work on more than one new idea at a time

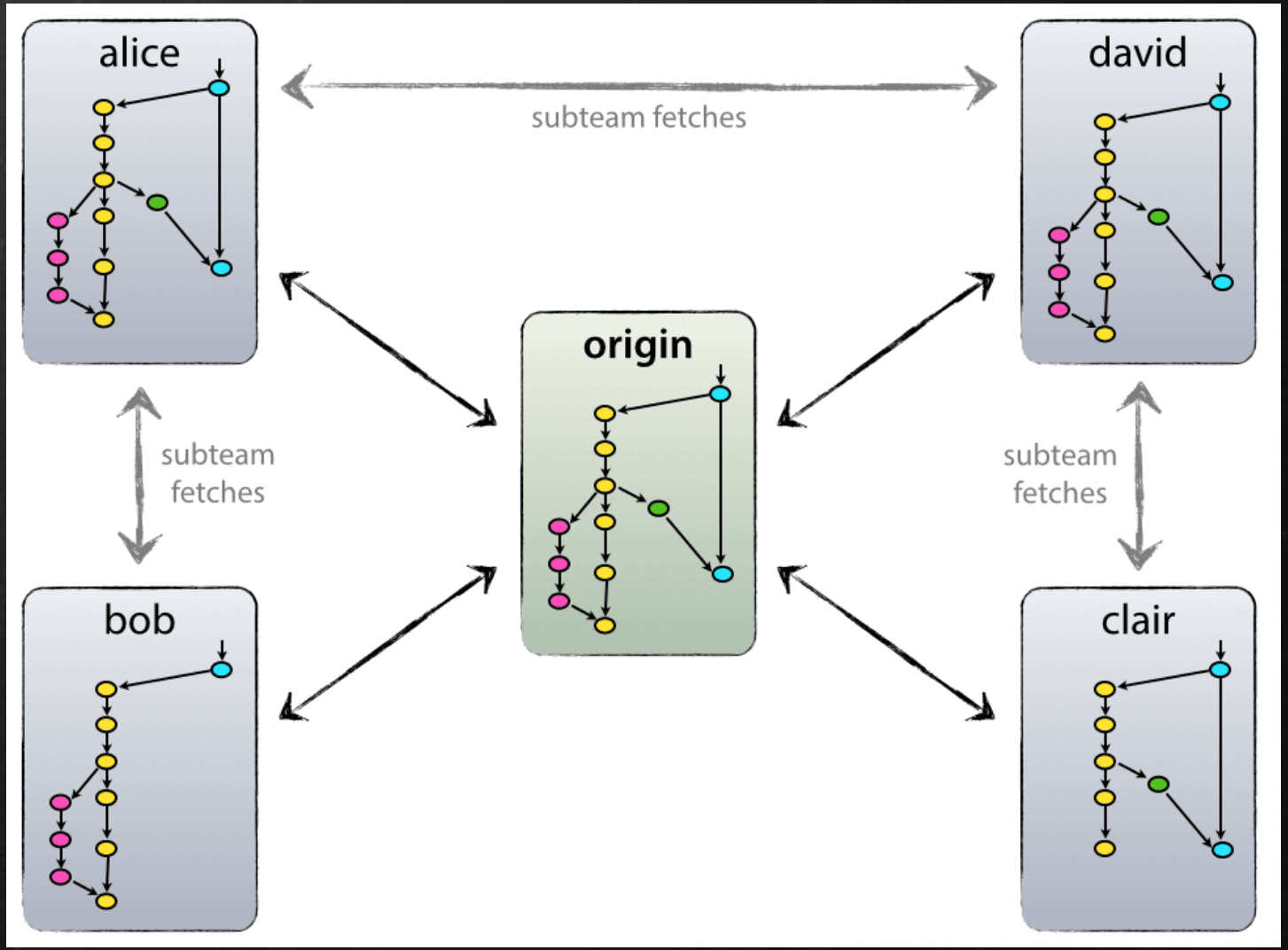
Support more than one contributor

Conflict resolution allows no locked code

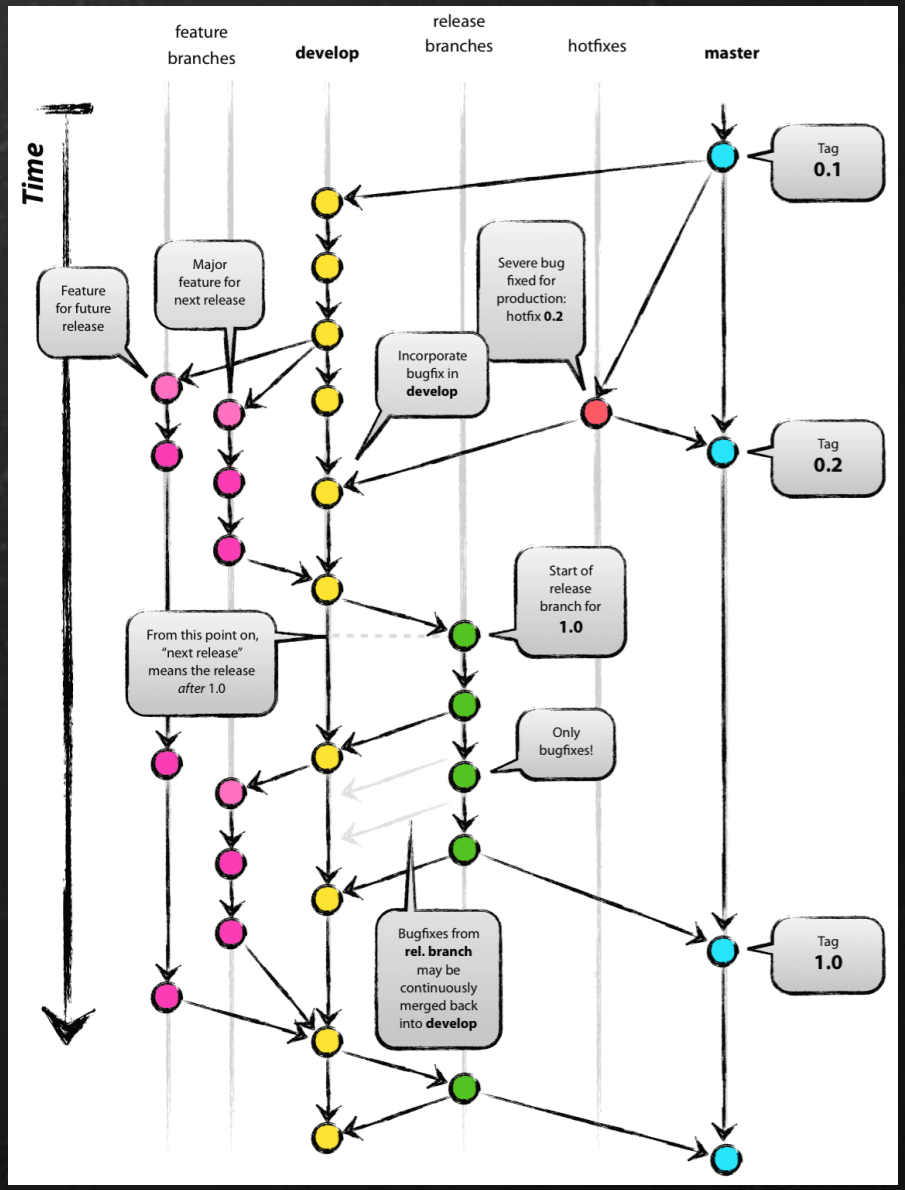
Work offline - repository access isn't required

Push and Pull are fast

Why: Arbitrary "Origin"



Why: Branching



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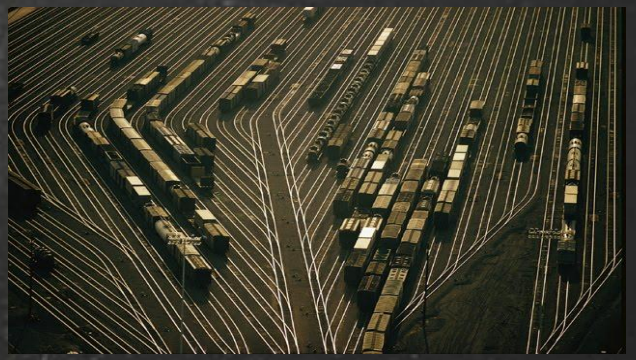

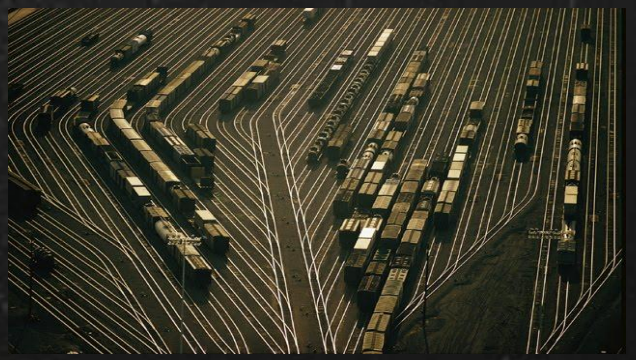

How: The Repository

Build your own (git-scm.com)

Github (github.com)

Bitbucket (bitbucket.org)

How: Your Computer

Install GIT:
http://git-scm.com/downloads

Windows users - install GIT with Cygwin: https://www.cygwin.com

"Getting Started" chapter of the online Pro Git book: http://git-scm.com/book/en/v2

How: Your Computer Talking to the Remote Repository

Learn to create and use SSH keypairs

http://www.openssh.com

for BitBucket: https://confluence.atlassian.com/display/BITBUCKET/Set+up+SSH+for+Git?utm_source=SAC&utm_medium=dashboard

for GitHub: https://help.github.com/articles/which-remote-url-should-i-use/

How: R Studio

https://support.rstudio.com/hc/en-us/articles/200532077-Version-Control-with-Git-and-SVN

How about an example