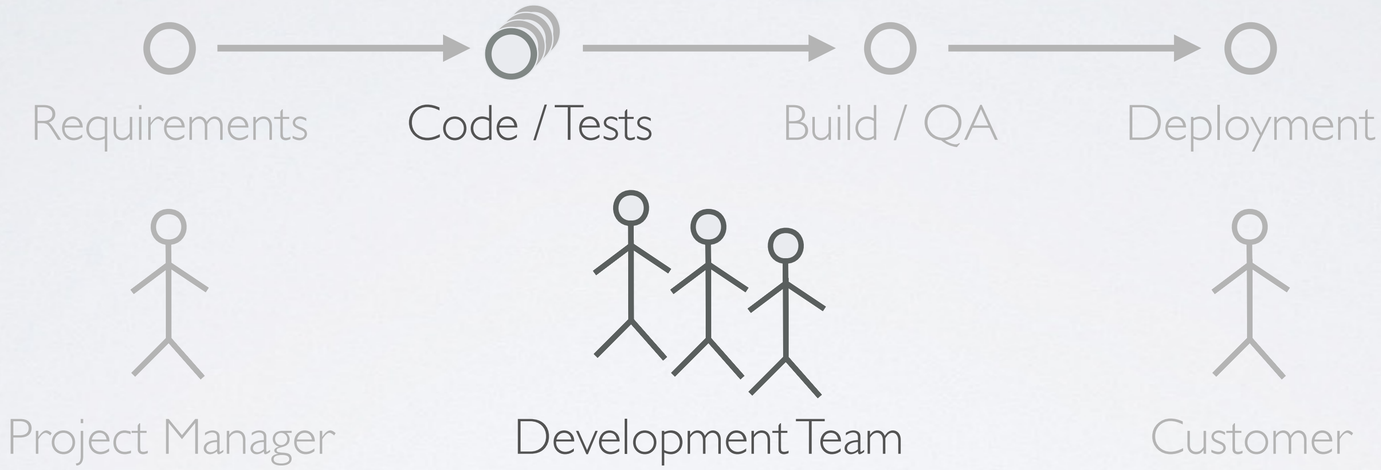
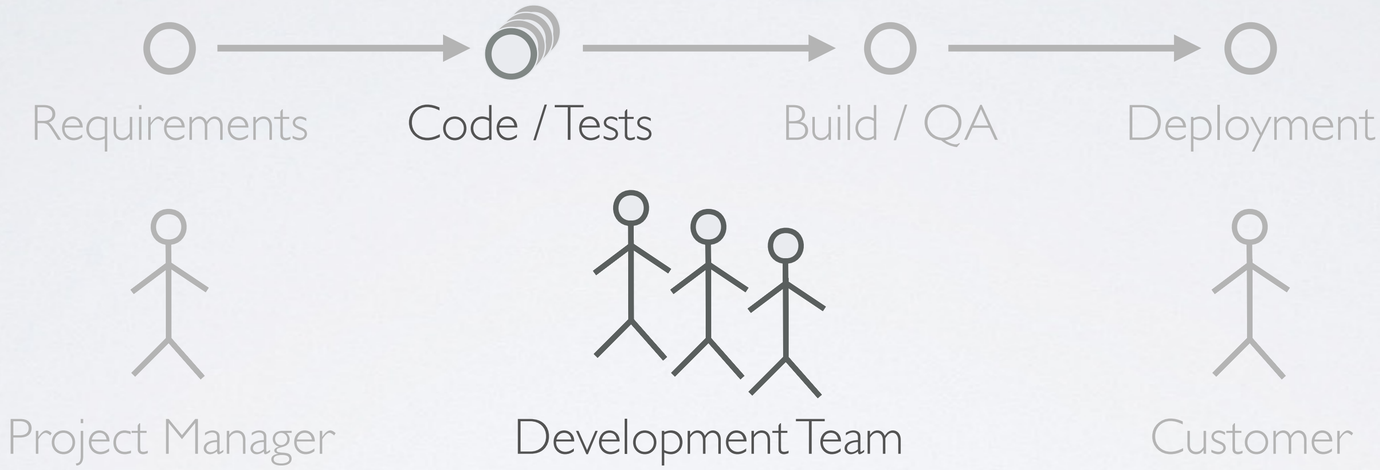
Git Concepts

Tilman Potthof //SEIBERT/MEDIA


Requirements
Code / Tests
Build / QA
Deployment
Project Manager
Development Team
Customer

VERSION CONTROL SYSTEM (VCS)



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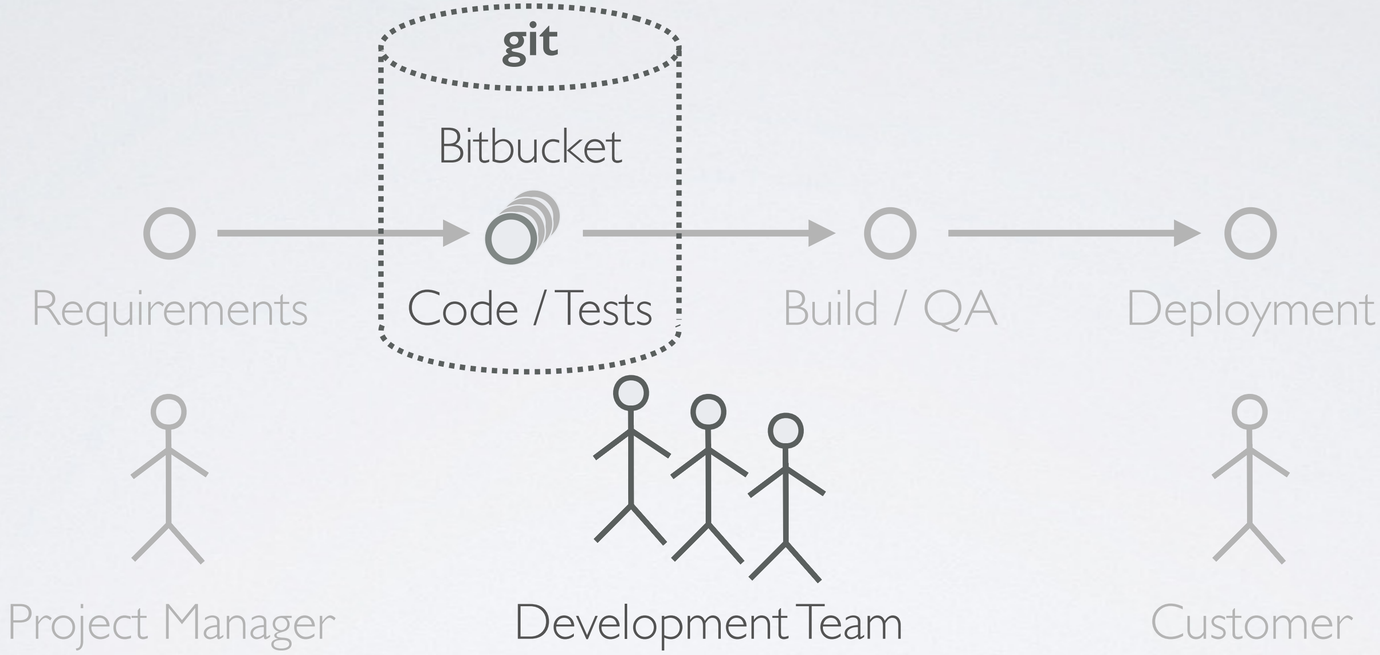
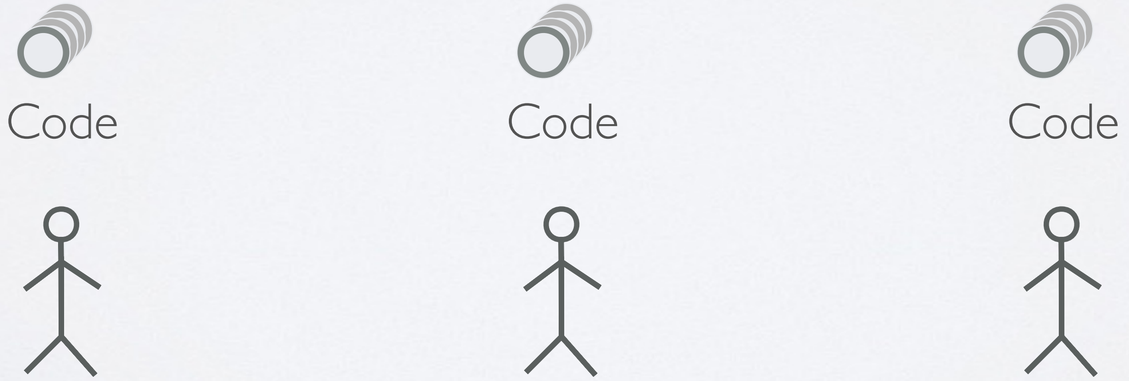


CODE MANAGEMENT WITH SVN



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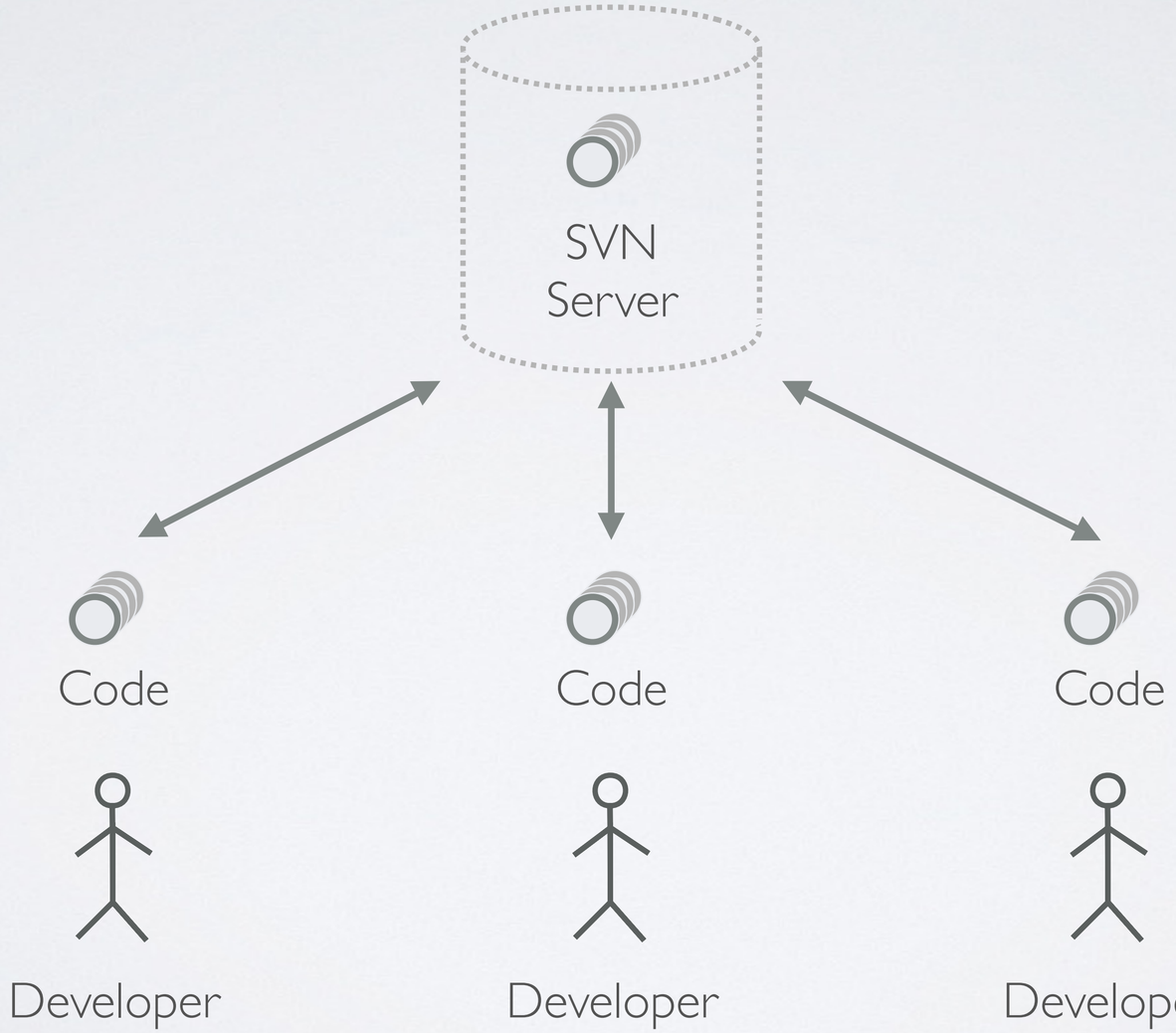
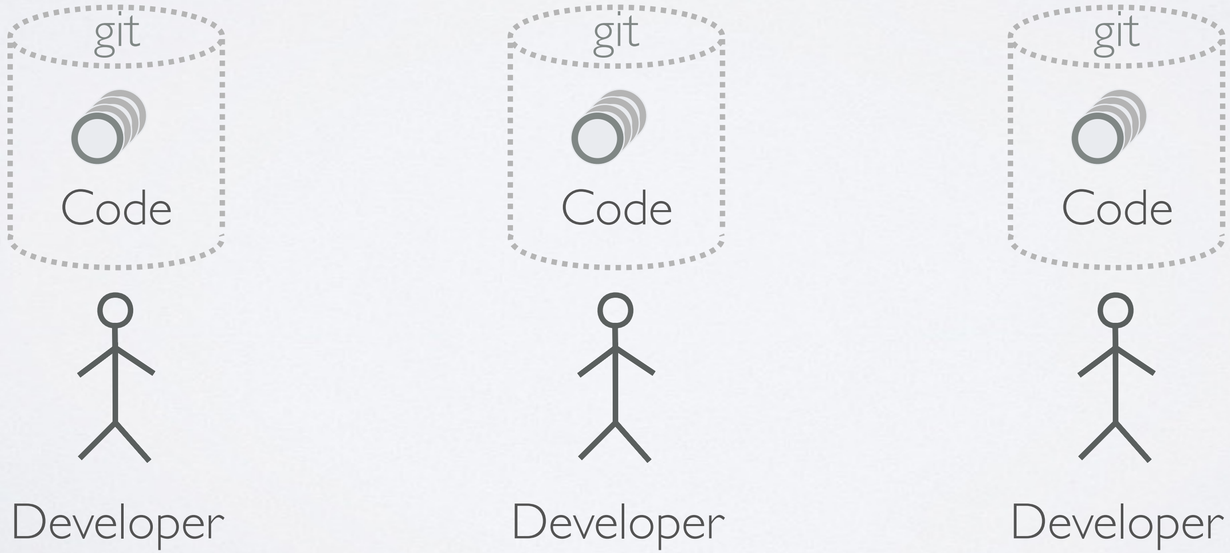


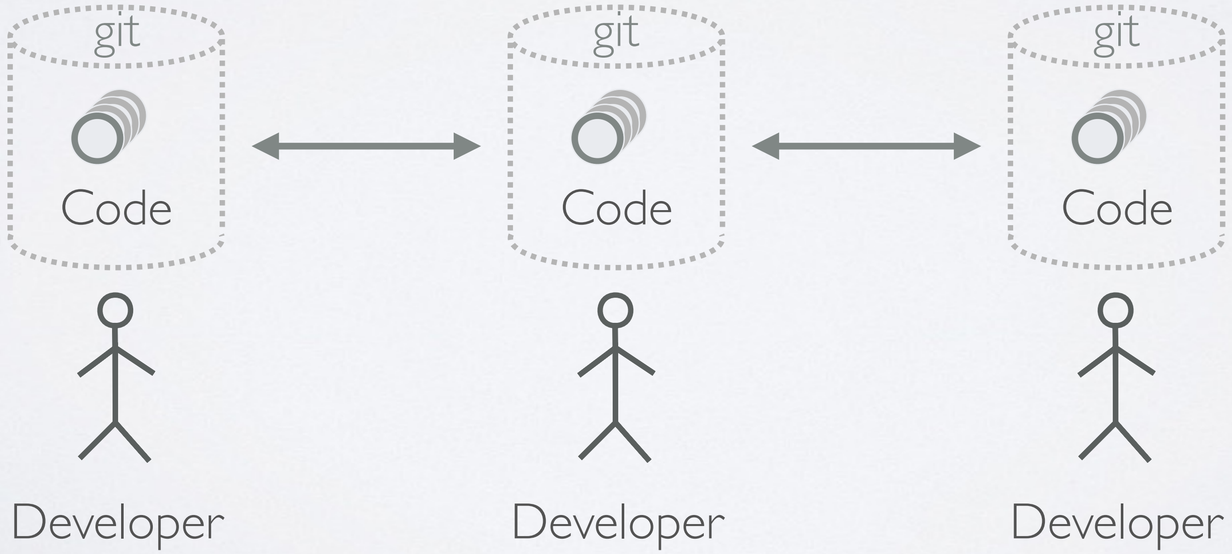
SVN CONCEPTS

- Central code management on a server
- Simple global revision numbers
- Files can have their own versions
- All commands require network

DISTRIBUTED VCS (DVCS)



DISTRIBUTED VCS (DVCS)



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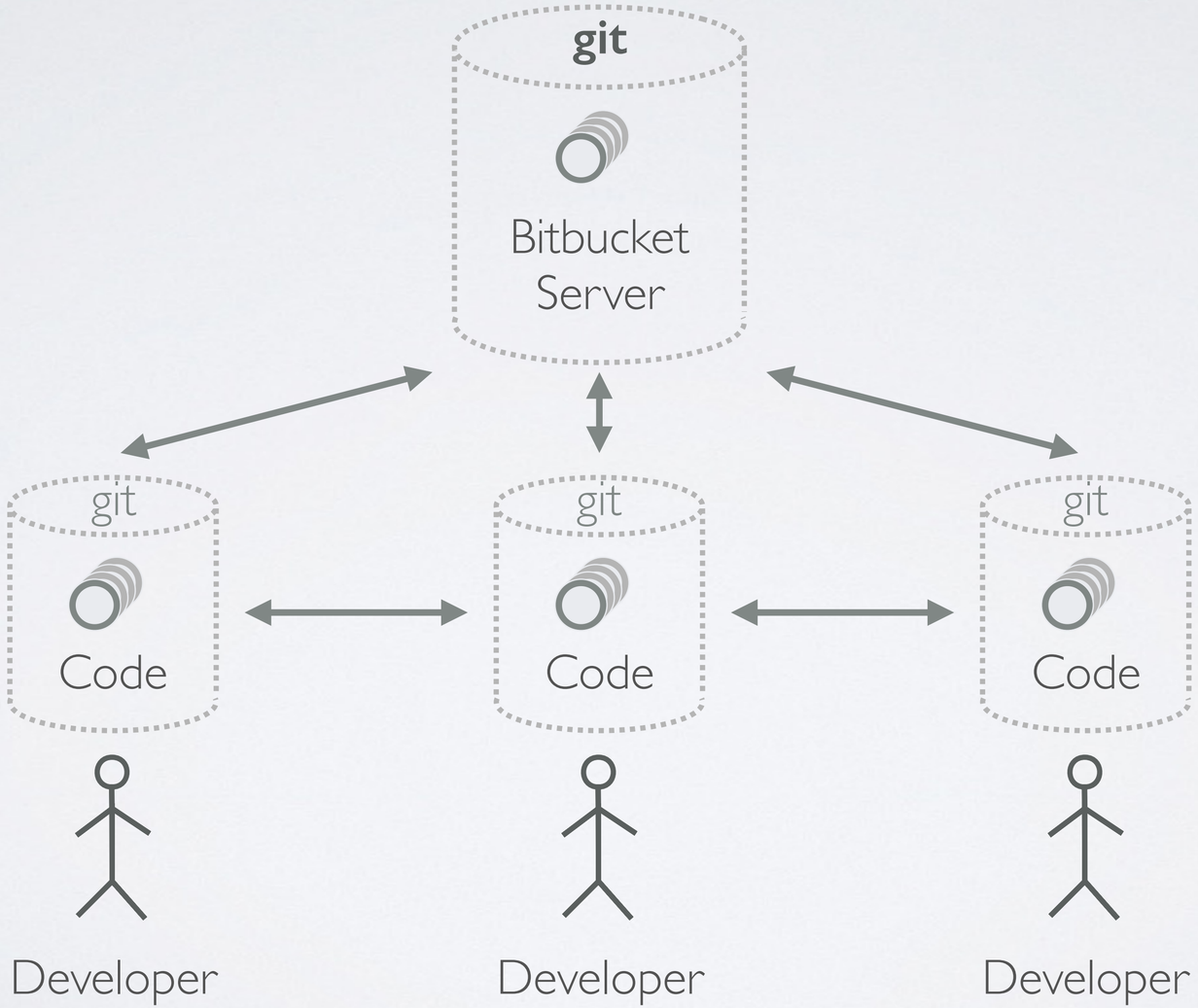
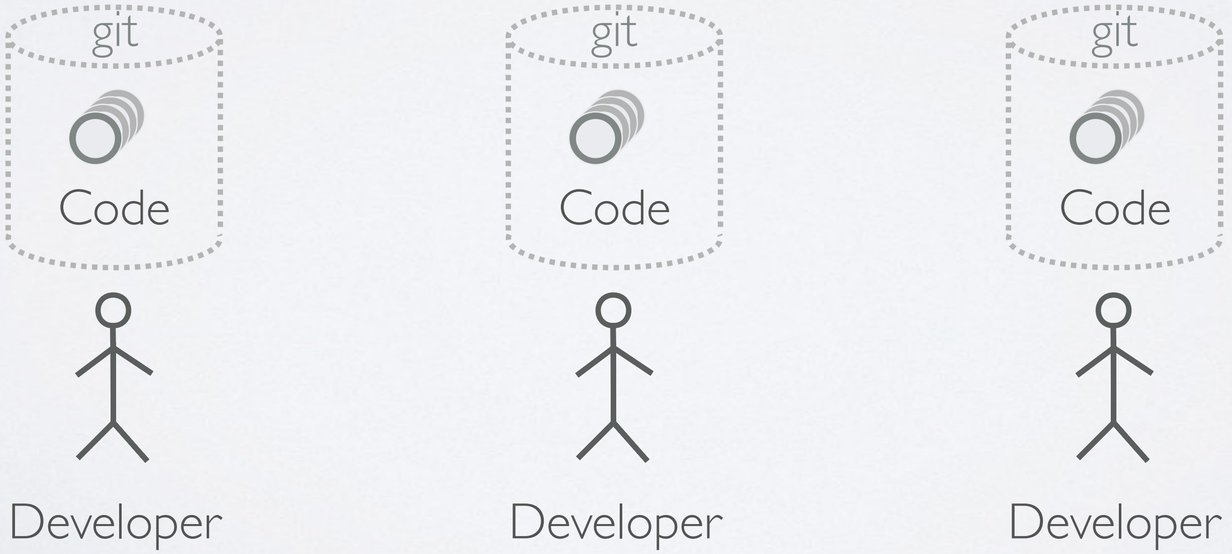
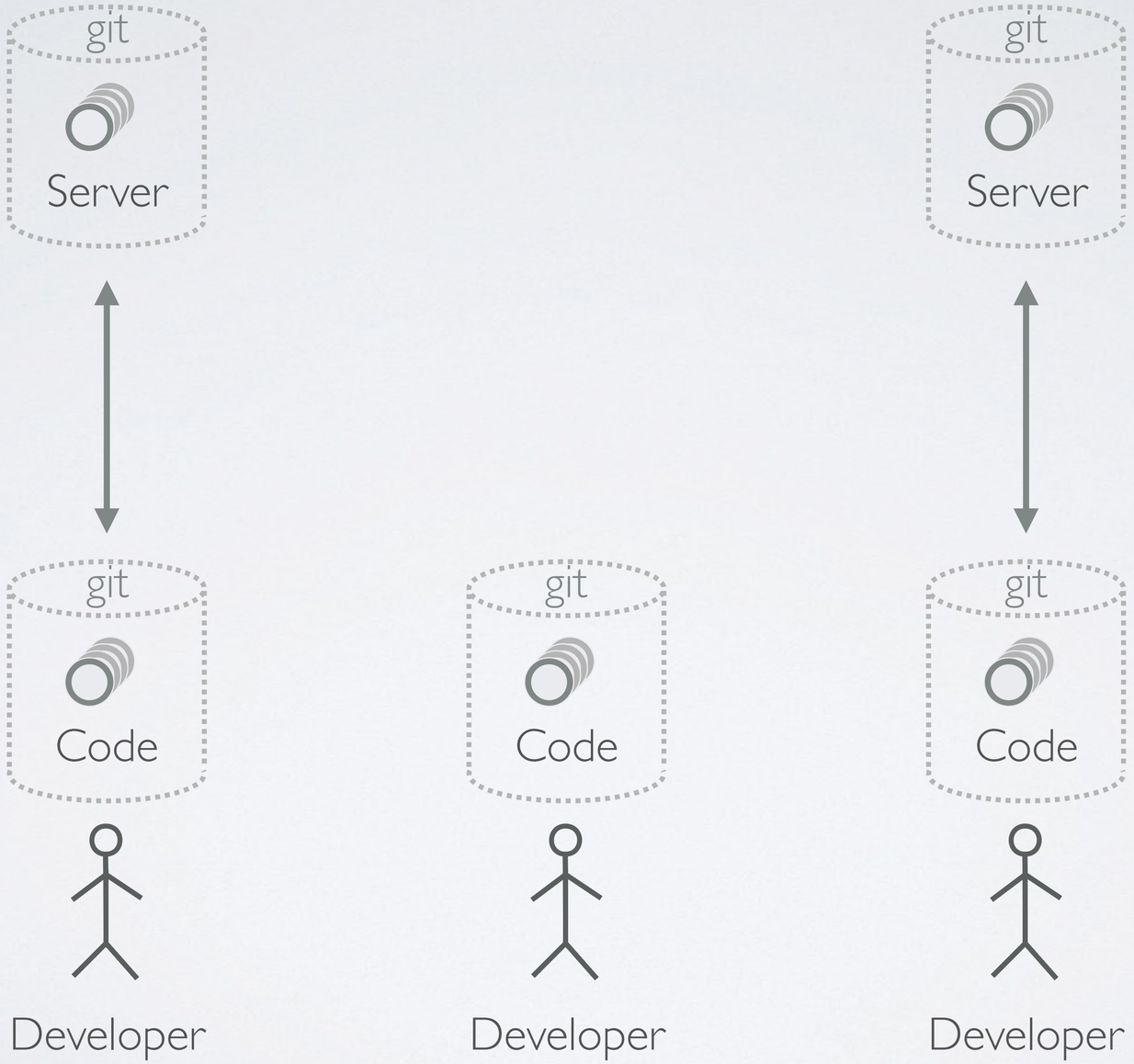



git
Code
Developer
git
Code
Developer
git
Code
Developer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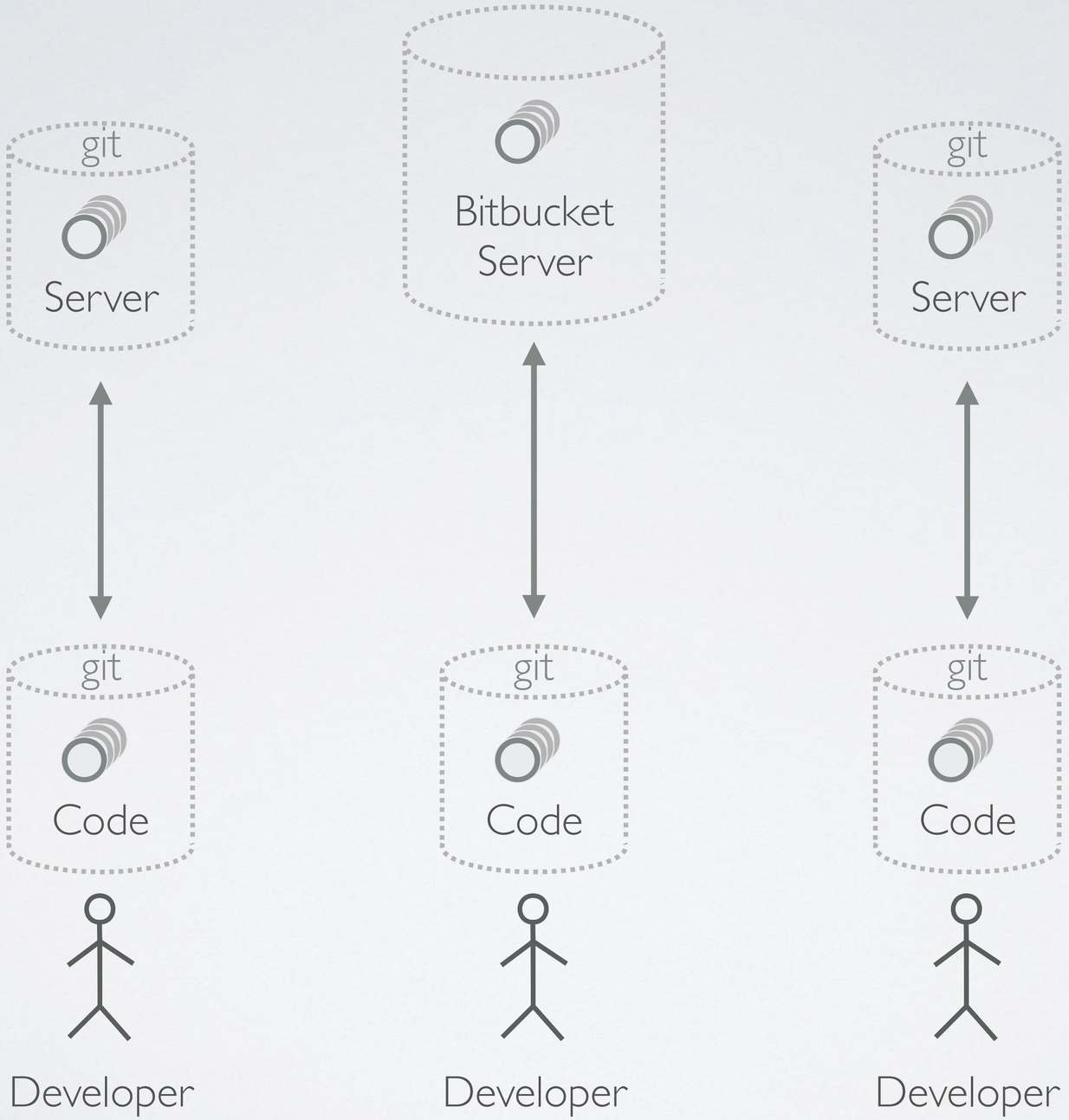
Code
Developer


git
Server
Bitbucket
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Code
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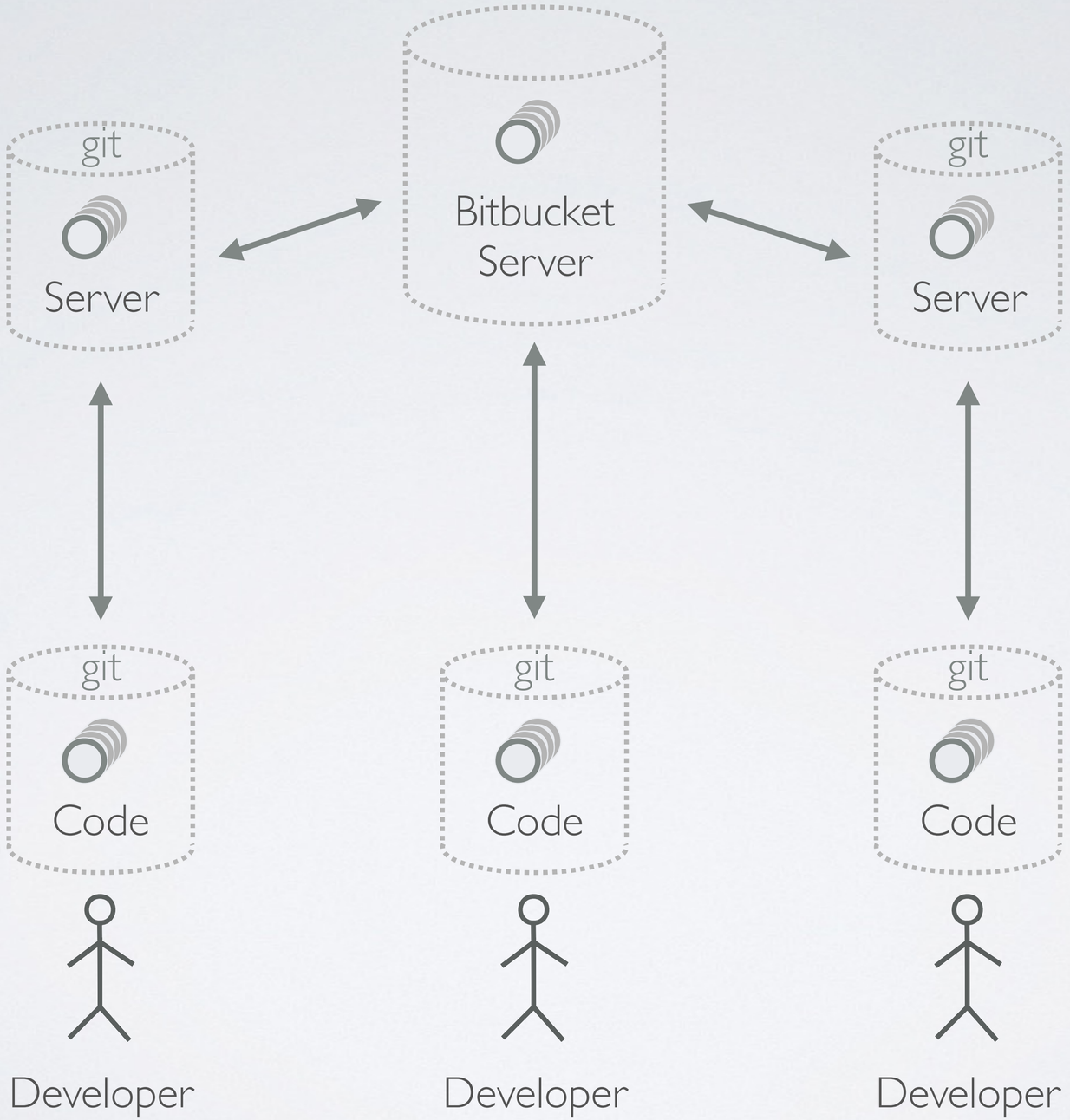
Code
Developer
Developer
Developer


git
Server
Bitbucket
Server
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Code
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Code
Developer
Developer
Developer

GIT CONCEPTS

- Distributes code management
- Cryptographic hash as revision number
- Local and server commands
- Simple branching and merging

OTHER CHARACTERISTICS

- Original use case - Linux kernel
- Very complex workflows are possible
- Simplified commands for common usage
- Becomes the de facto standard

QUESTIONS?