

Beyond Continuous Delivery

Chris Hilton

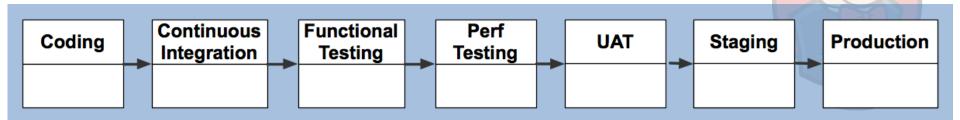
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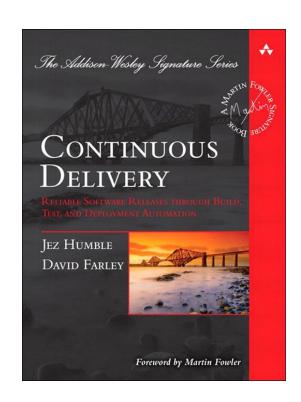
October 23, 2014

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Continuous Delivery



- Frequent, automated releases
- Every check-in is a potential release
- Every change triggers feedback
- Feedback must be received as soon as possible
- Automate almost everything
- Build quality in



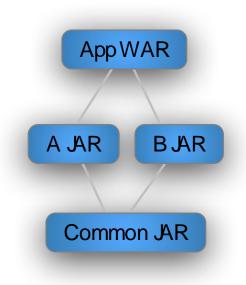
Assumptions

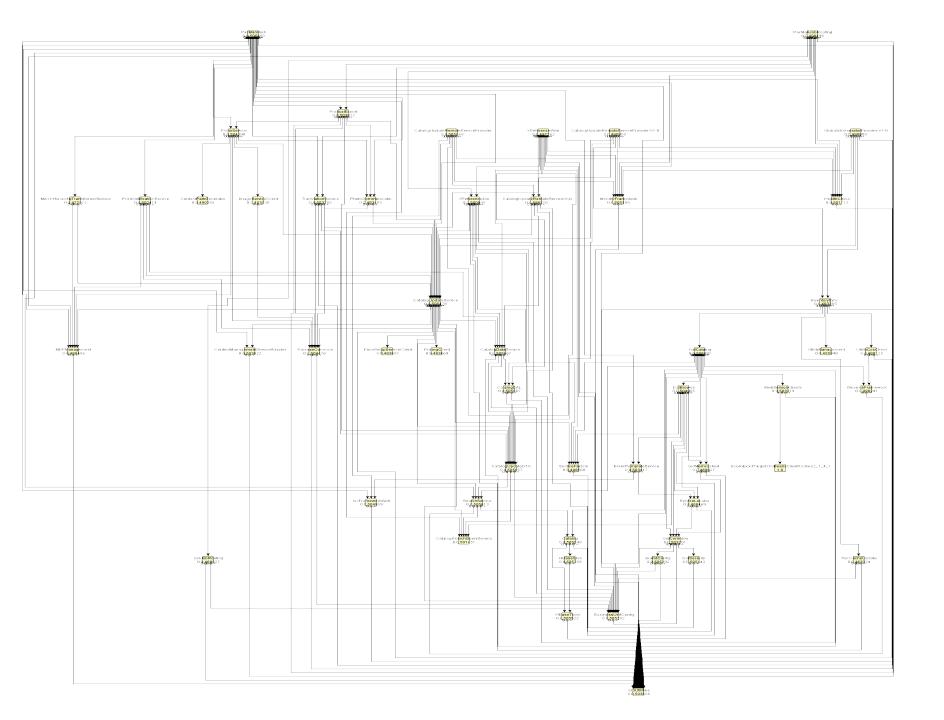
- Trunk-based development
- Continuous integration/delivery/deployment
- Cloud infrastructure
 - Cheap
 - Unlimited



Modular Development and Dependency Management

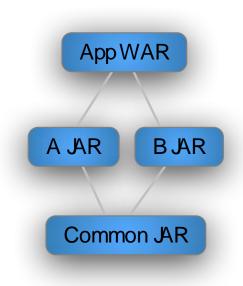






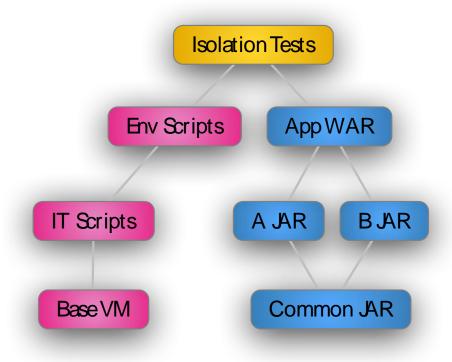
Dependency Management and Modular Development





Infrastructure as Code



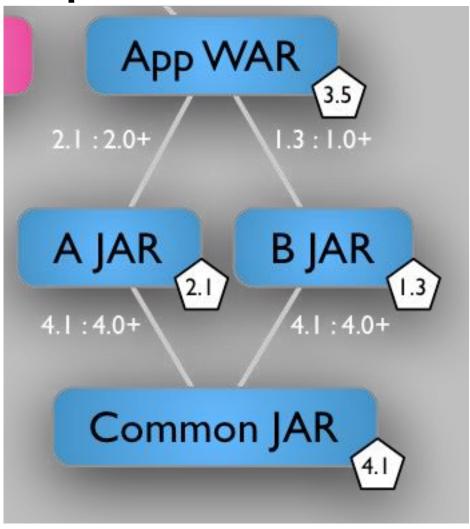






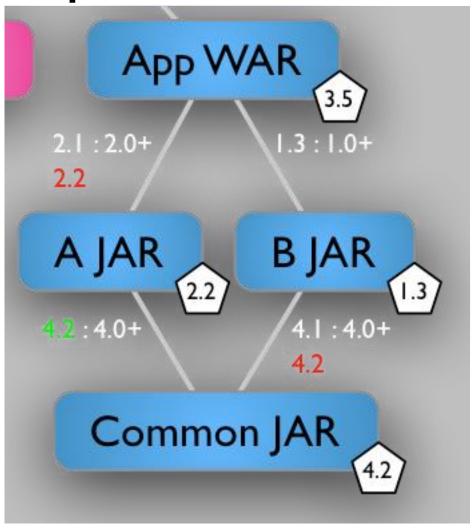


Semi-fluid Dependencies



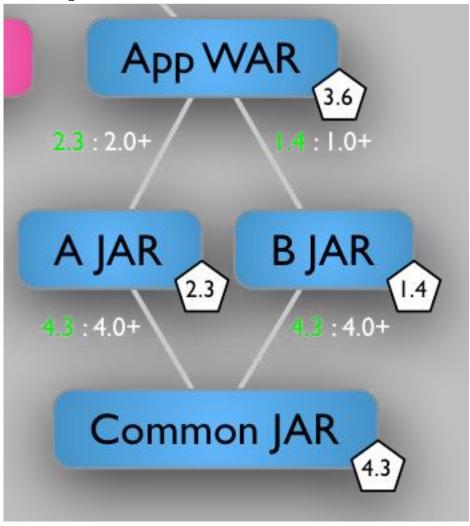


Semi-fluid Dependencies



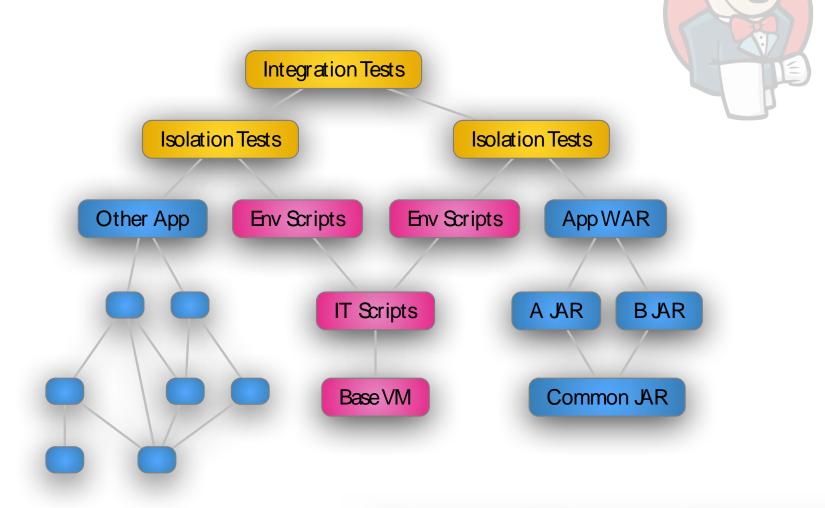


Semi-fluid Dependencies





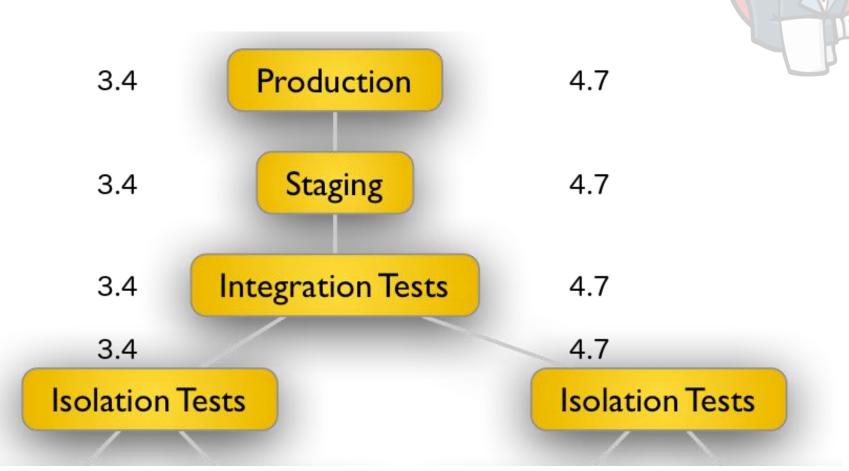
Integrated Pipelines



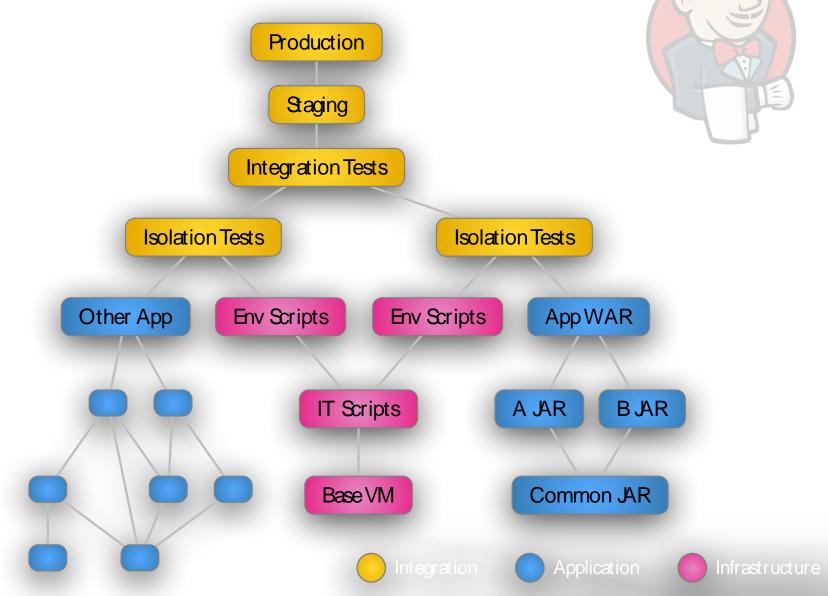




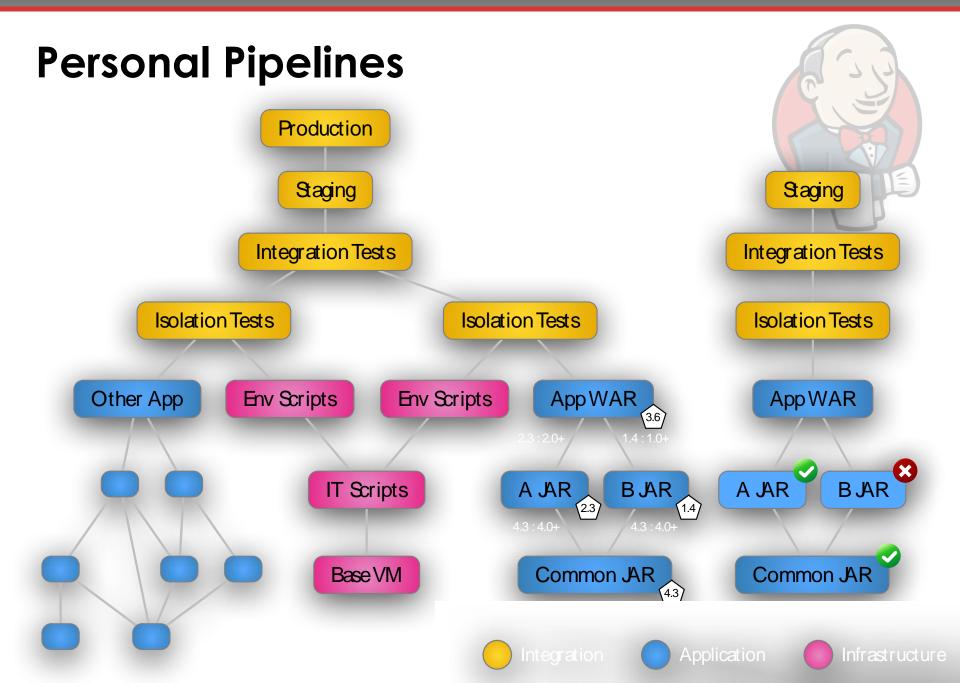
Fusion Testing

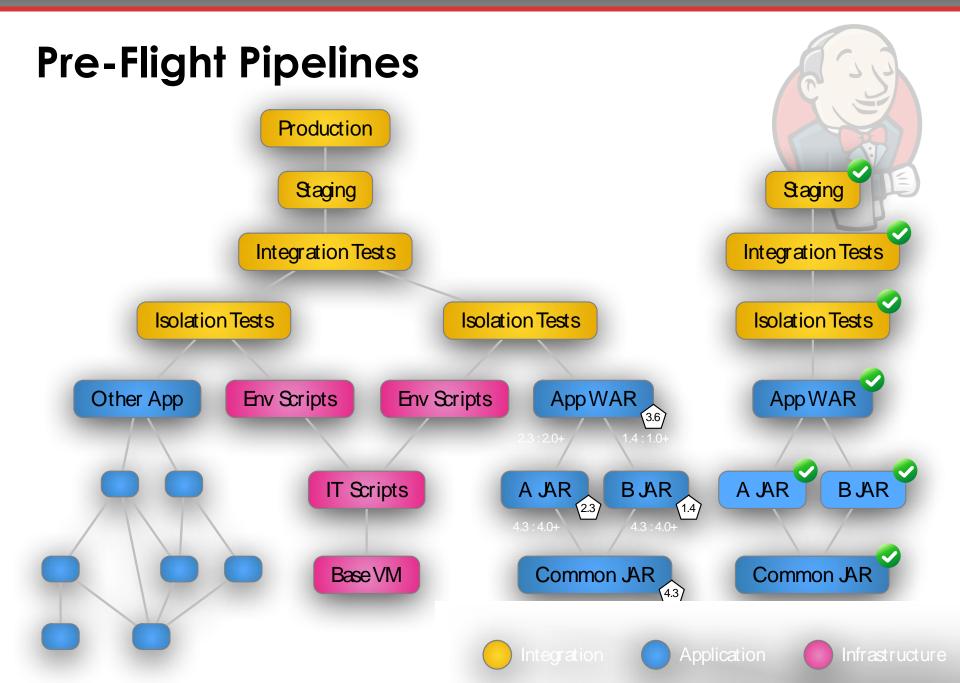


Pipeline Segments

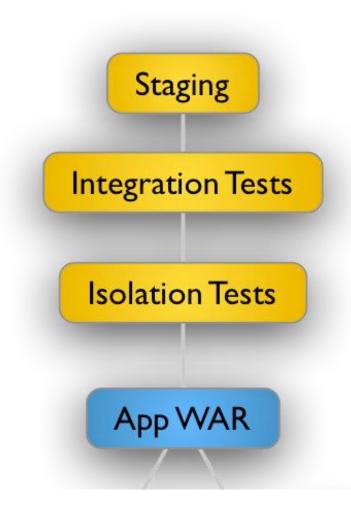


Cloneable Pipelines **Production** Staging Staging Integration Tests Integration Tests **Isolation Tests Isolation Tests Isolation Tests** Other App Env Scripts **App WAR** Env Scripts **App WAR** IT Scripts A JAR BJAR A JAR BAR Common JAR Common JAR Base VM



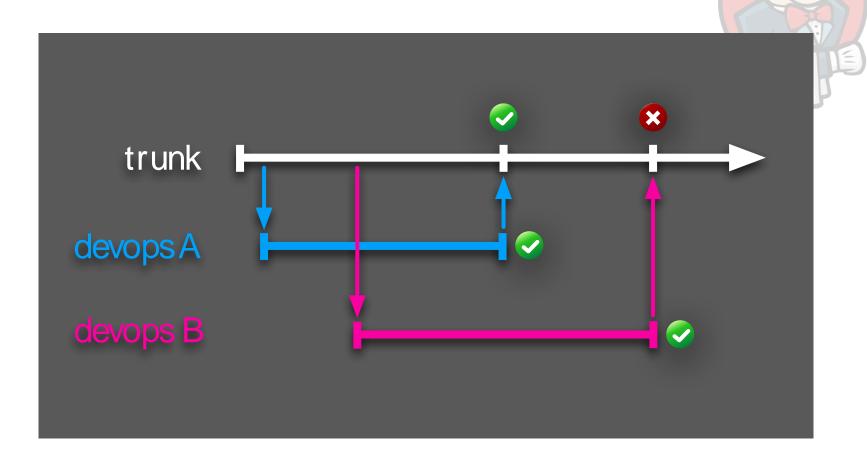


Speculative Pipelines

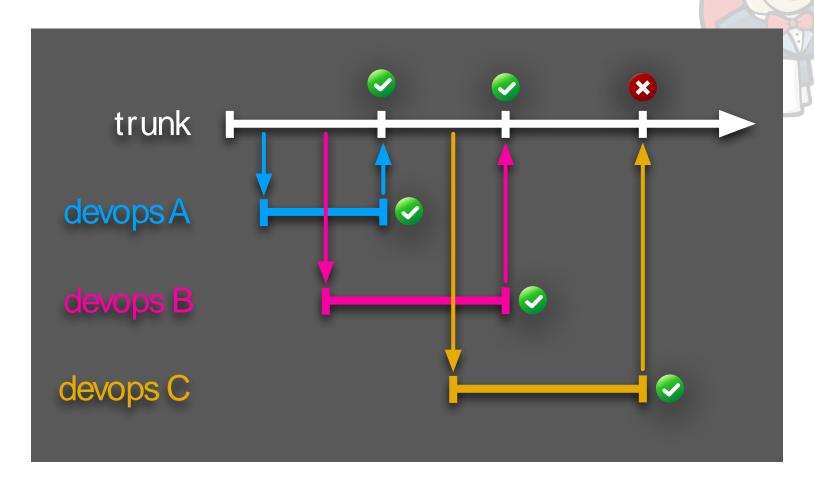




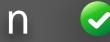
Pre-Flight Pipelines In Action



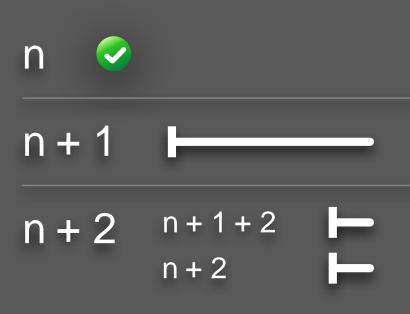
Pre-Flight Pipelines In Action



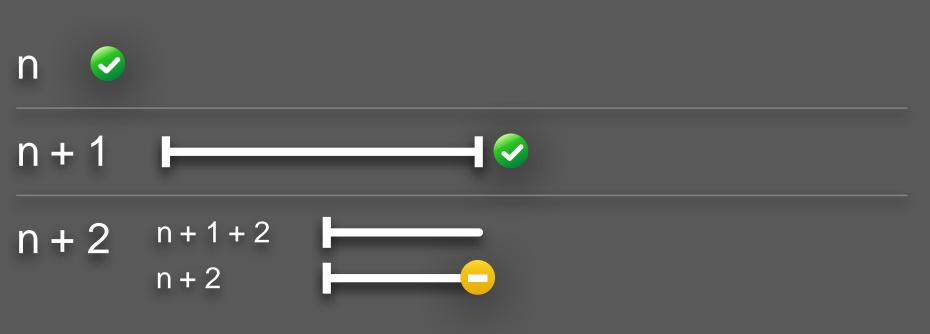




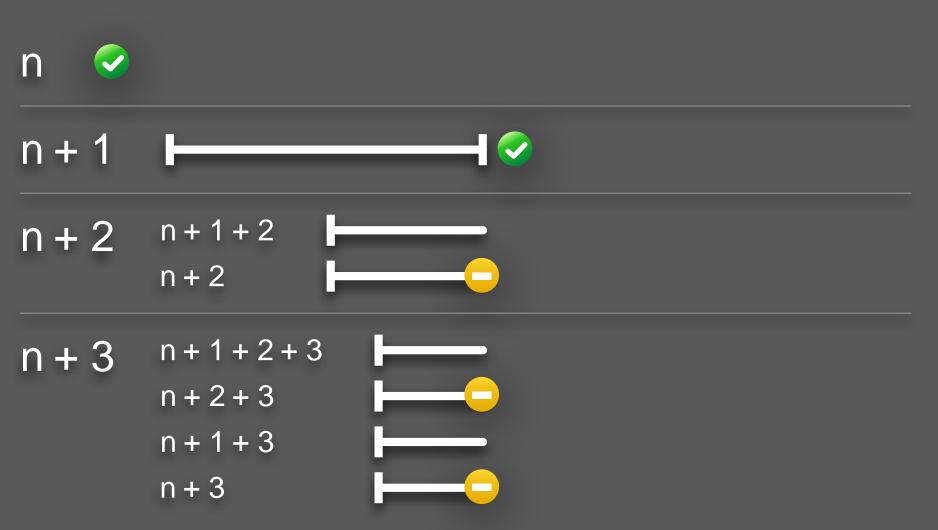






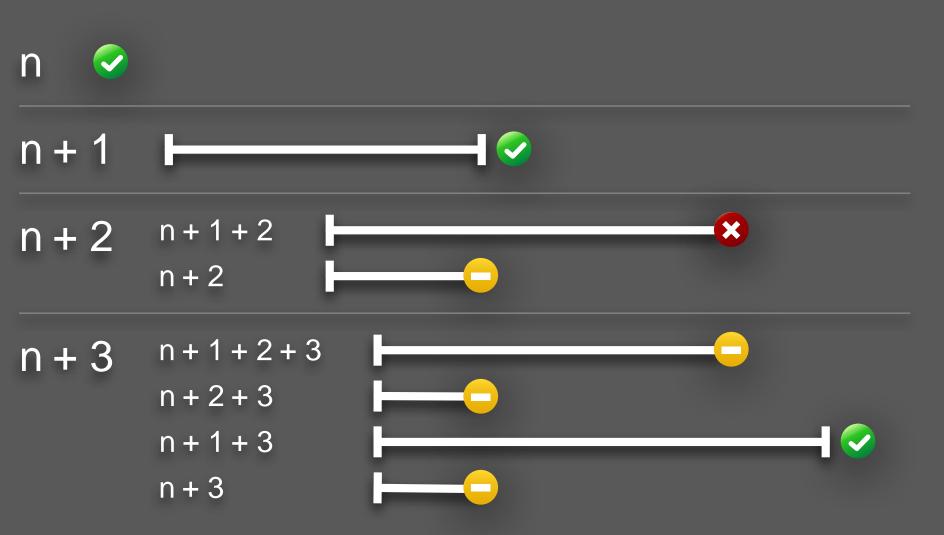




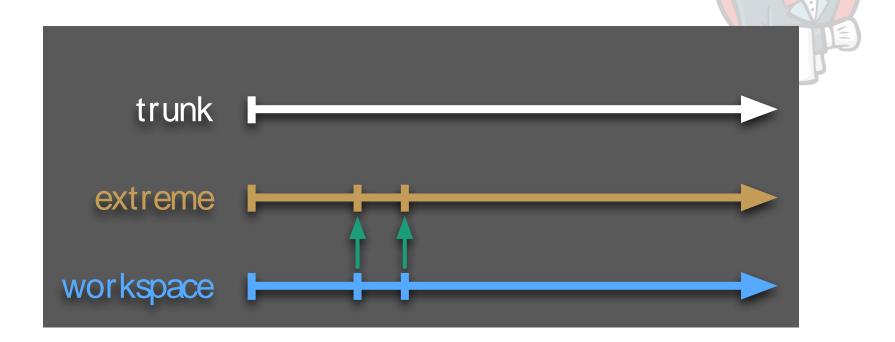


Evergreen Trunks

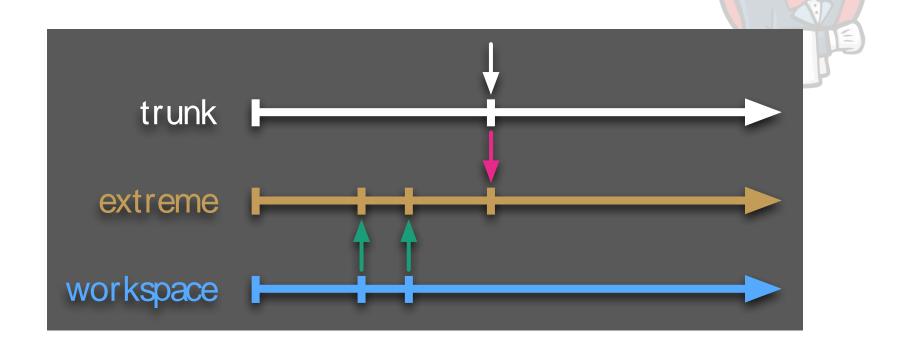




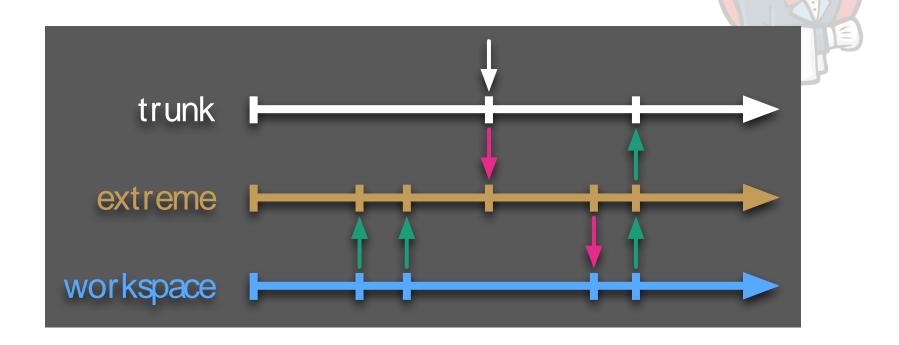
Extreme Integration



Extreme Integration



Extreme Integration



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