

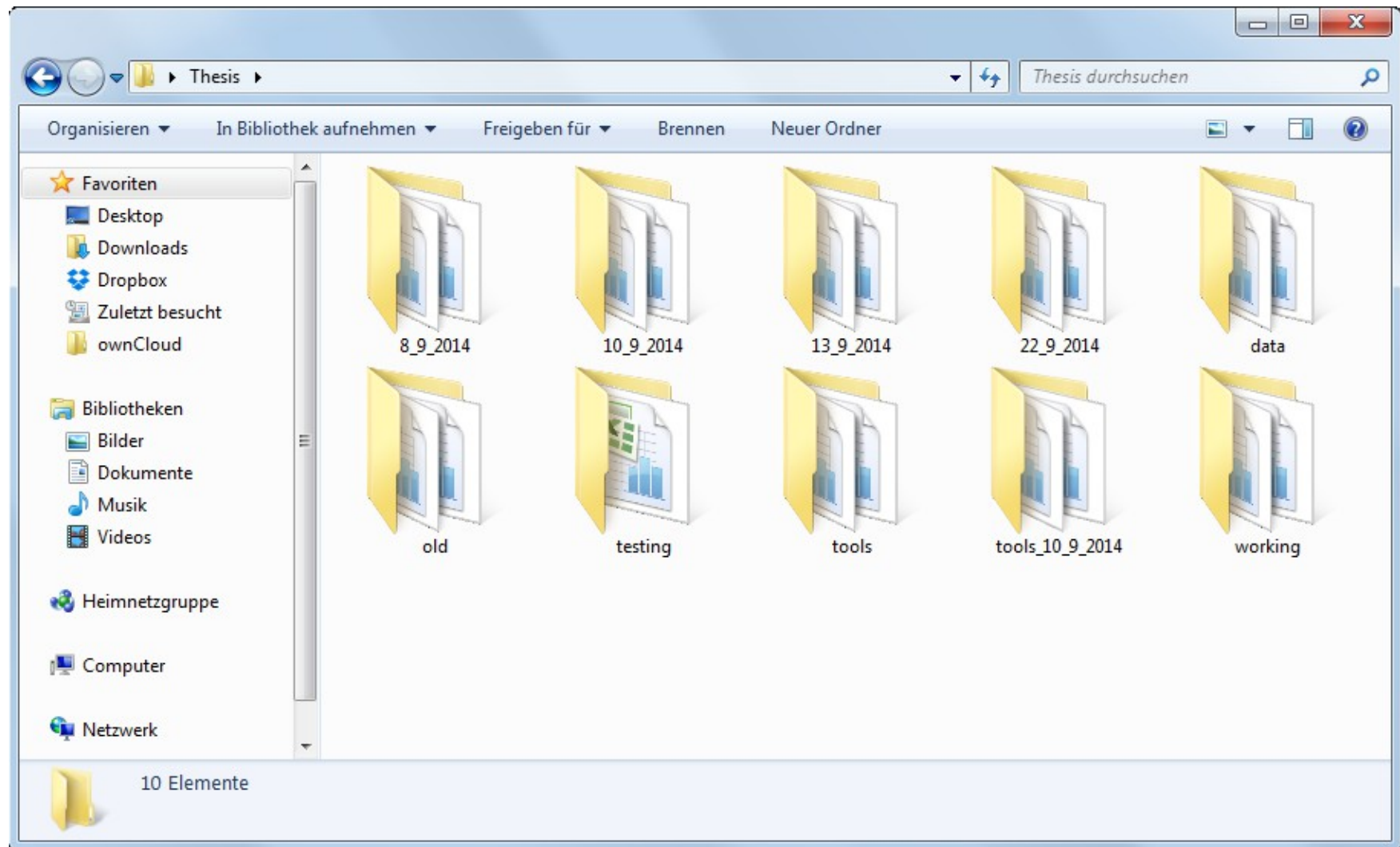


Versionskontrolle

Dario Maggi

Seminar: Open-Source-Softwareentwicklung
Universität Basel

Wieso Versionskontrolle?



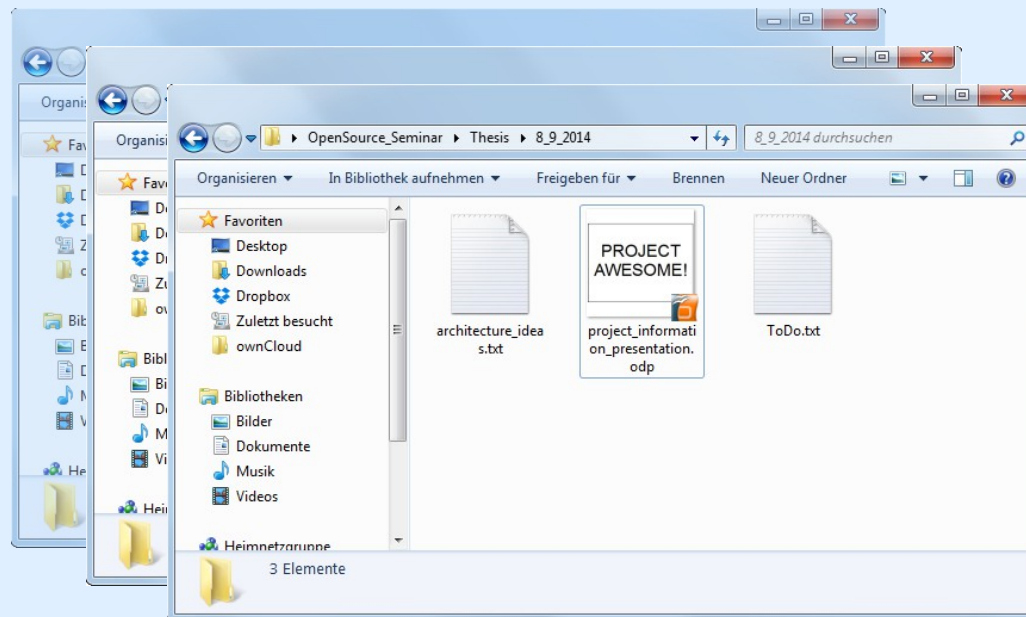
- Anforderungen an Tools für die Versionskontrolle (VCS)
- Zentrale Versionskontrolle
- Verteilte Versionskontrolle
- Hostet
- Branching Strategien

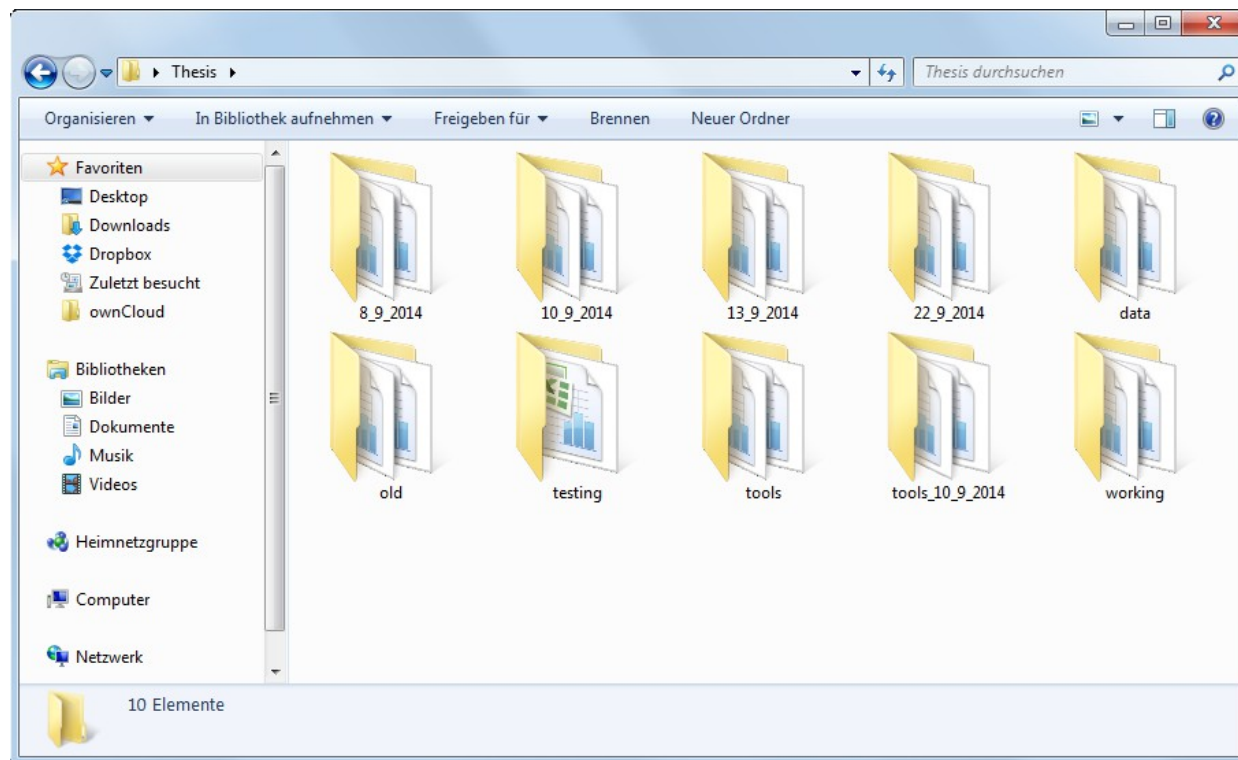


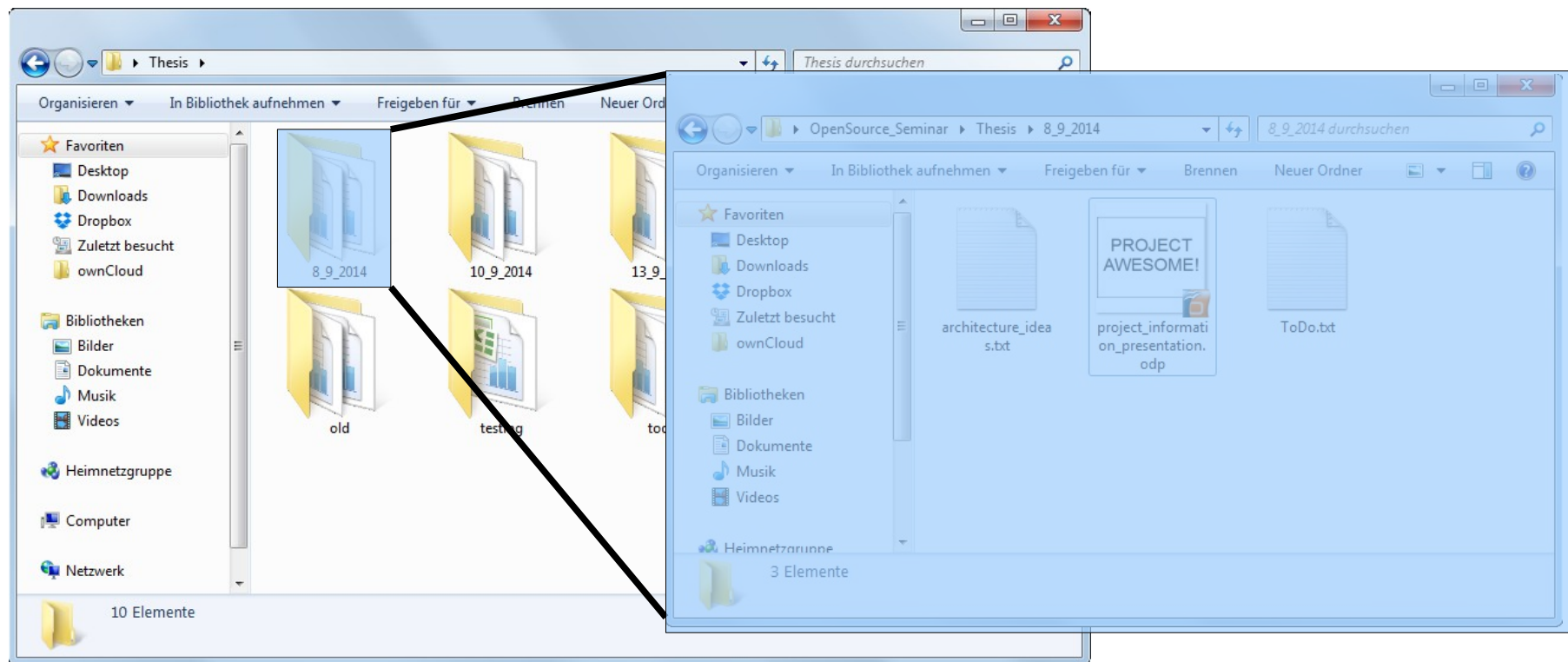
Anforderungen

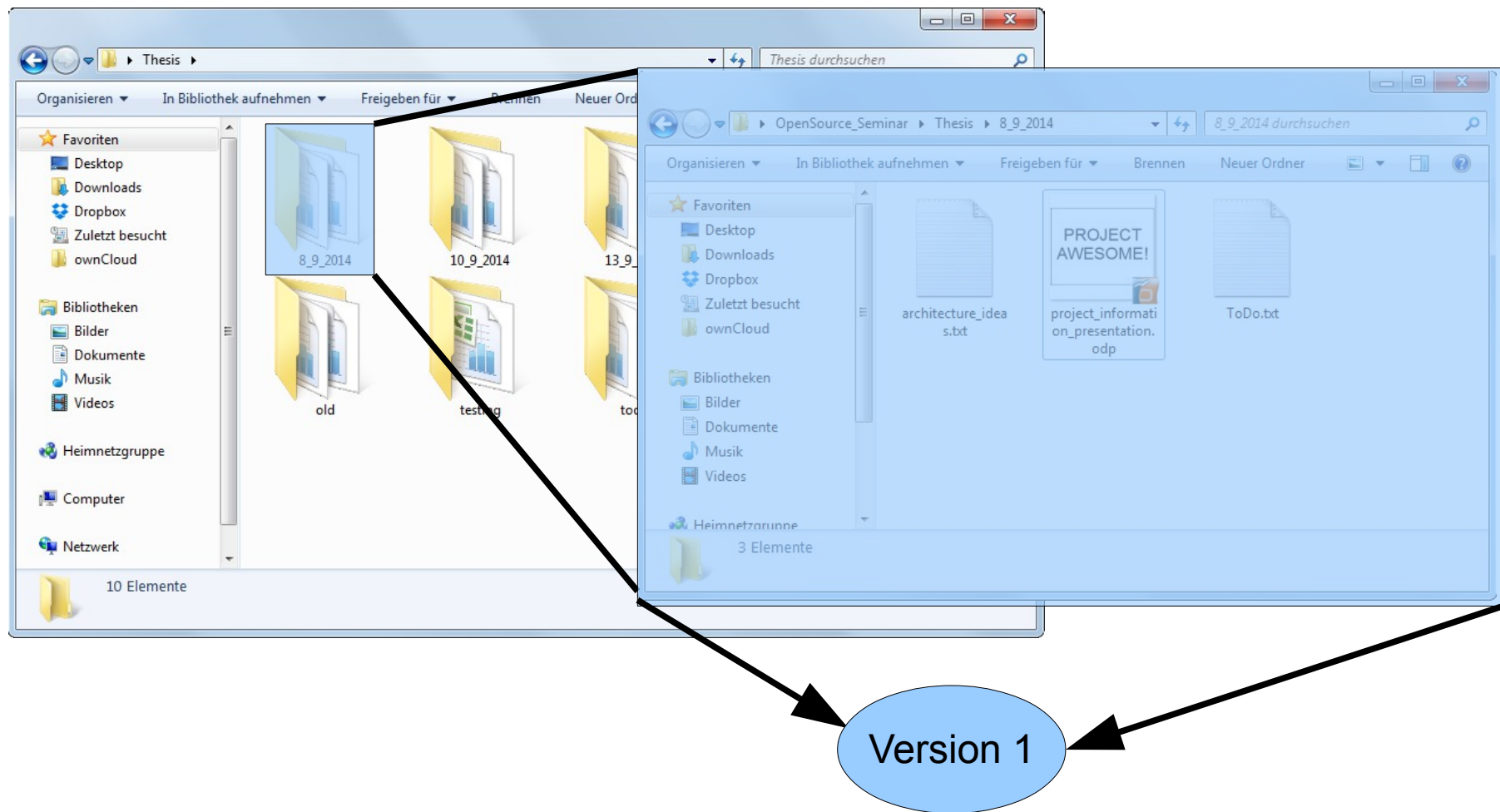
- Änderungsprotokoll
- Wiederherstellung von alten Versionen
- Mehrere Benutzer

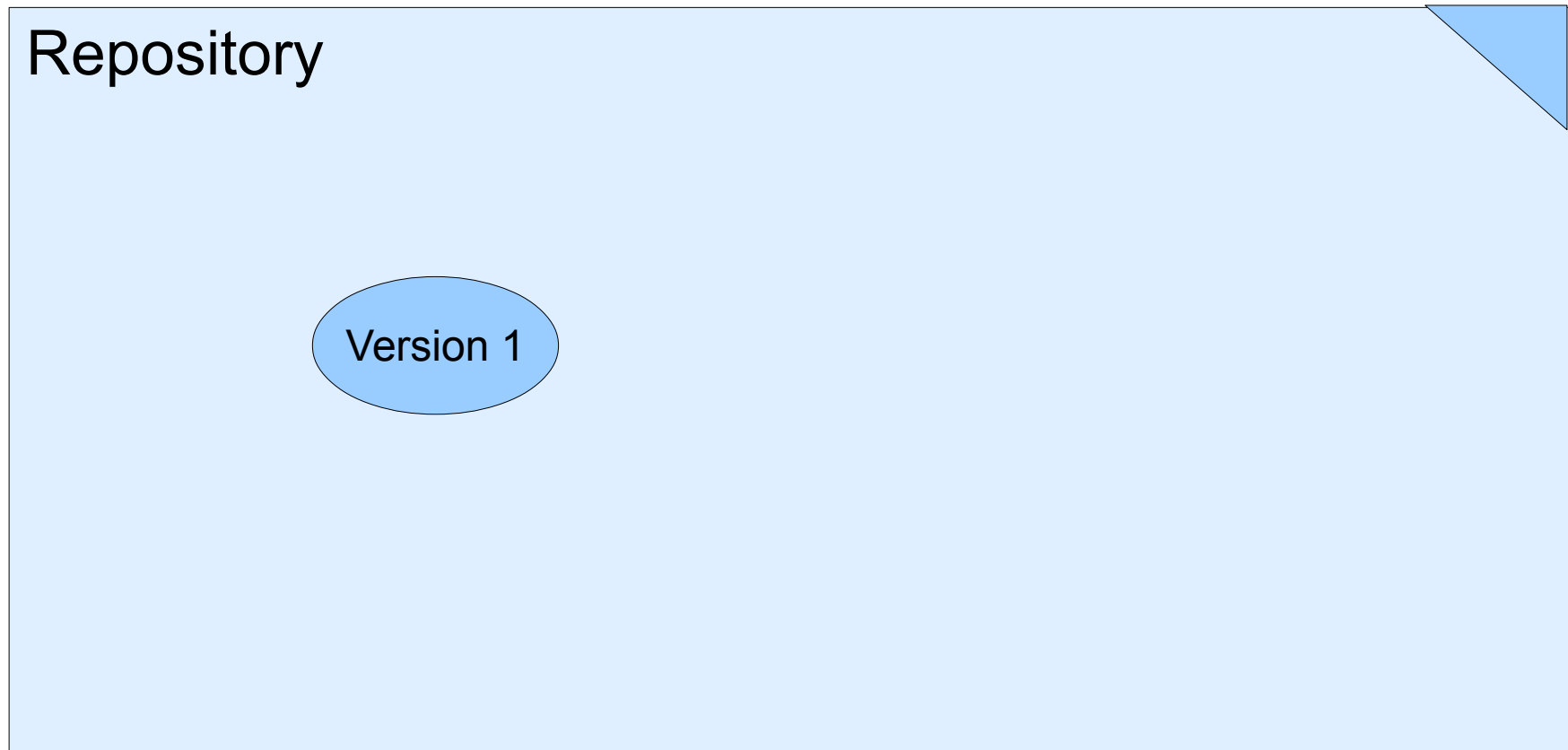
Repository





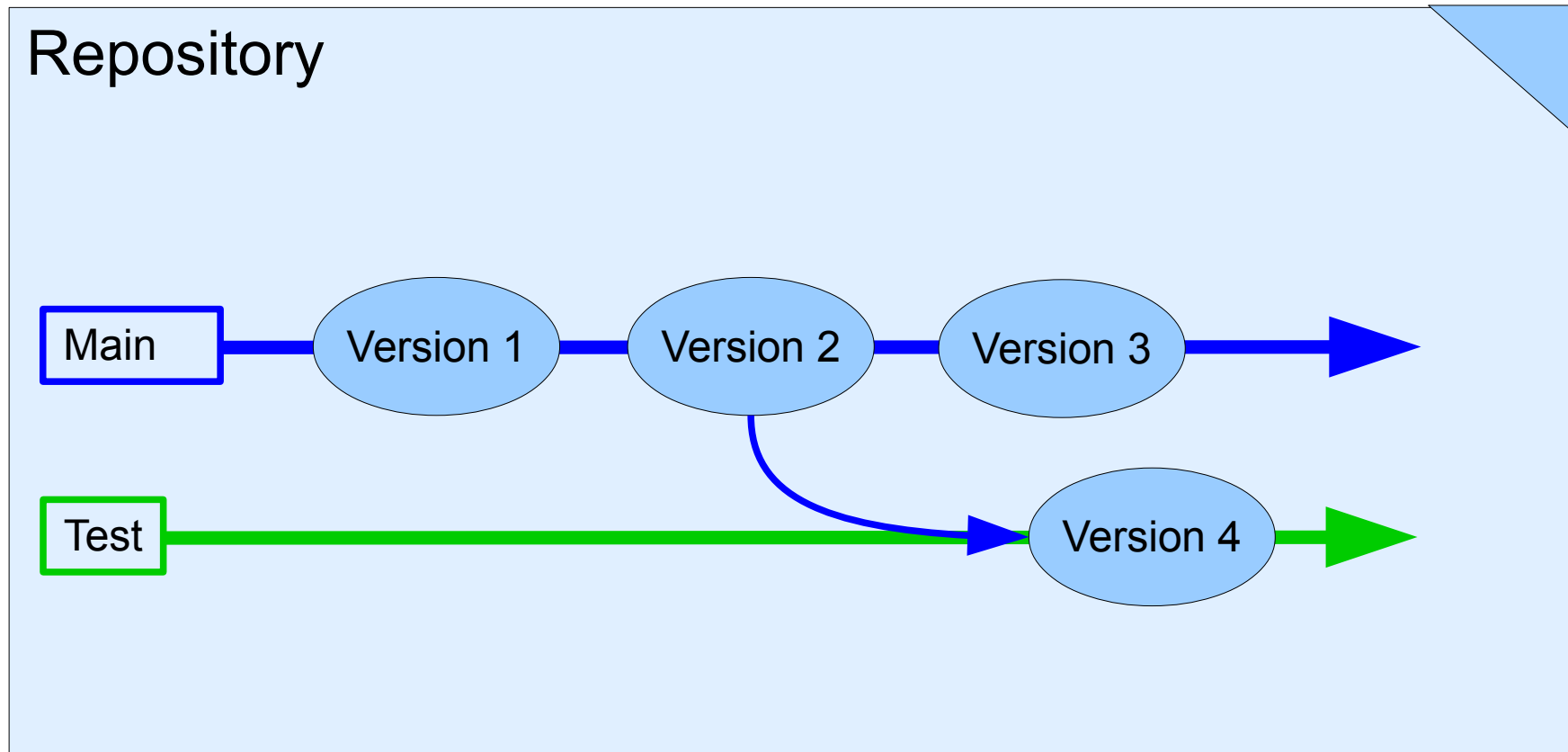


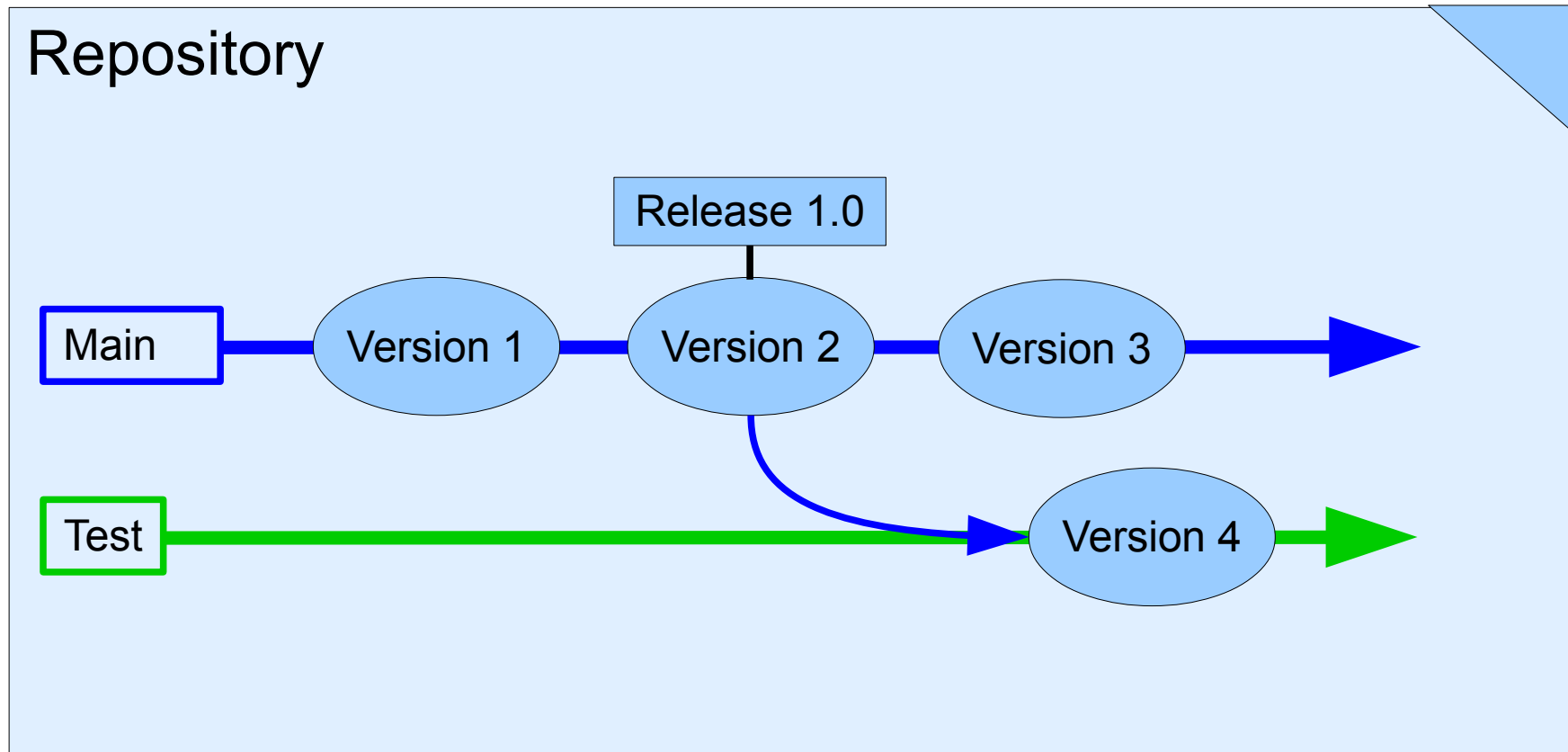


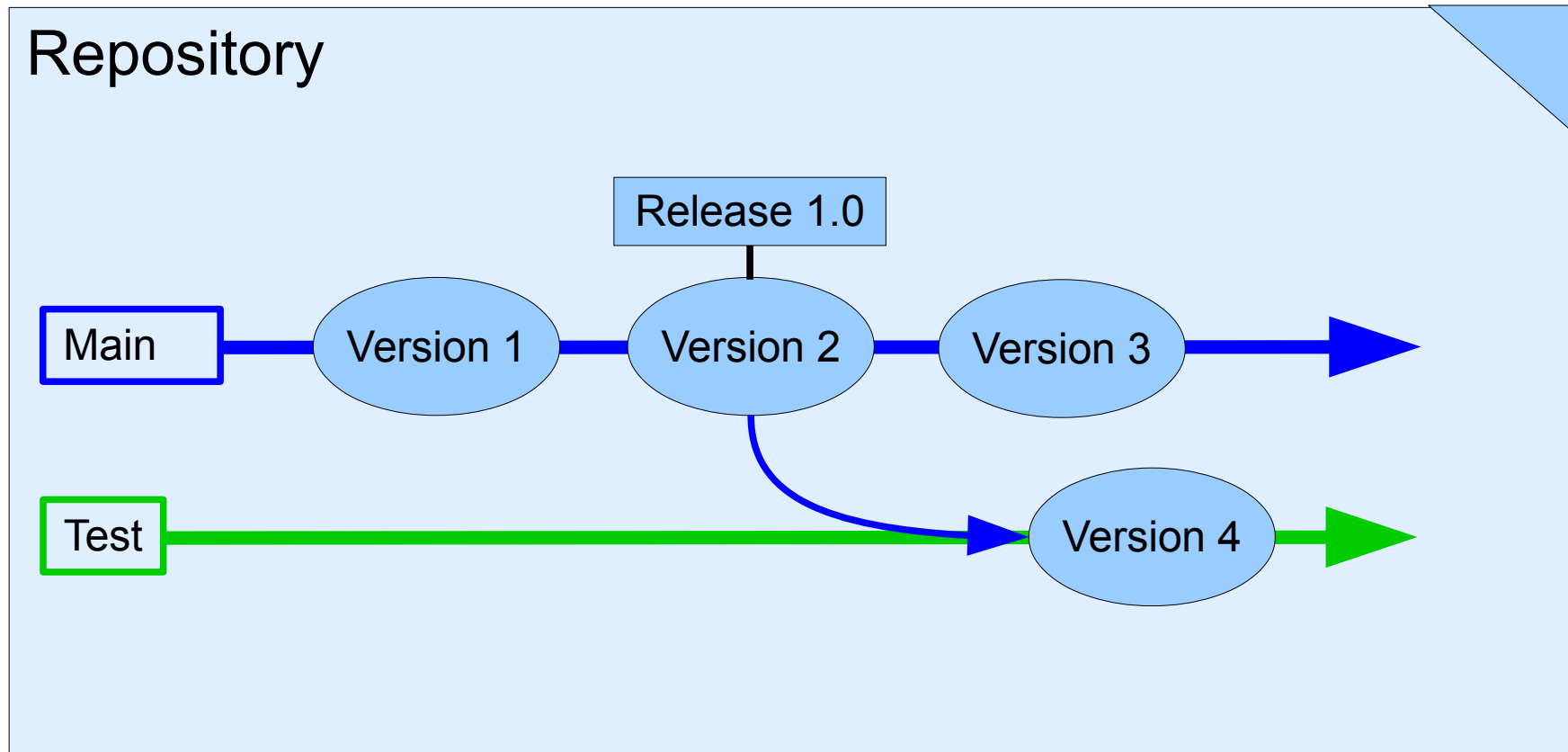


Repository





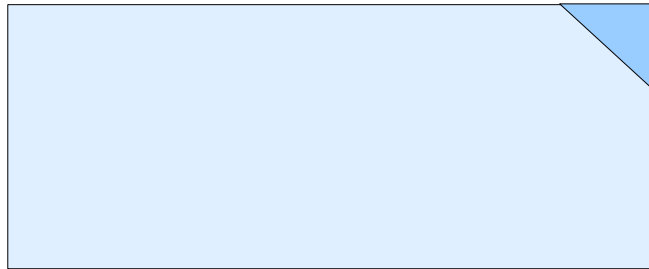




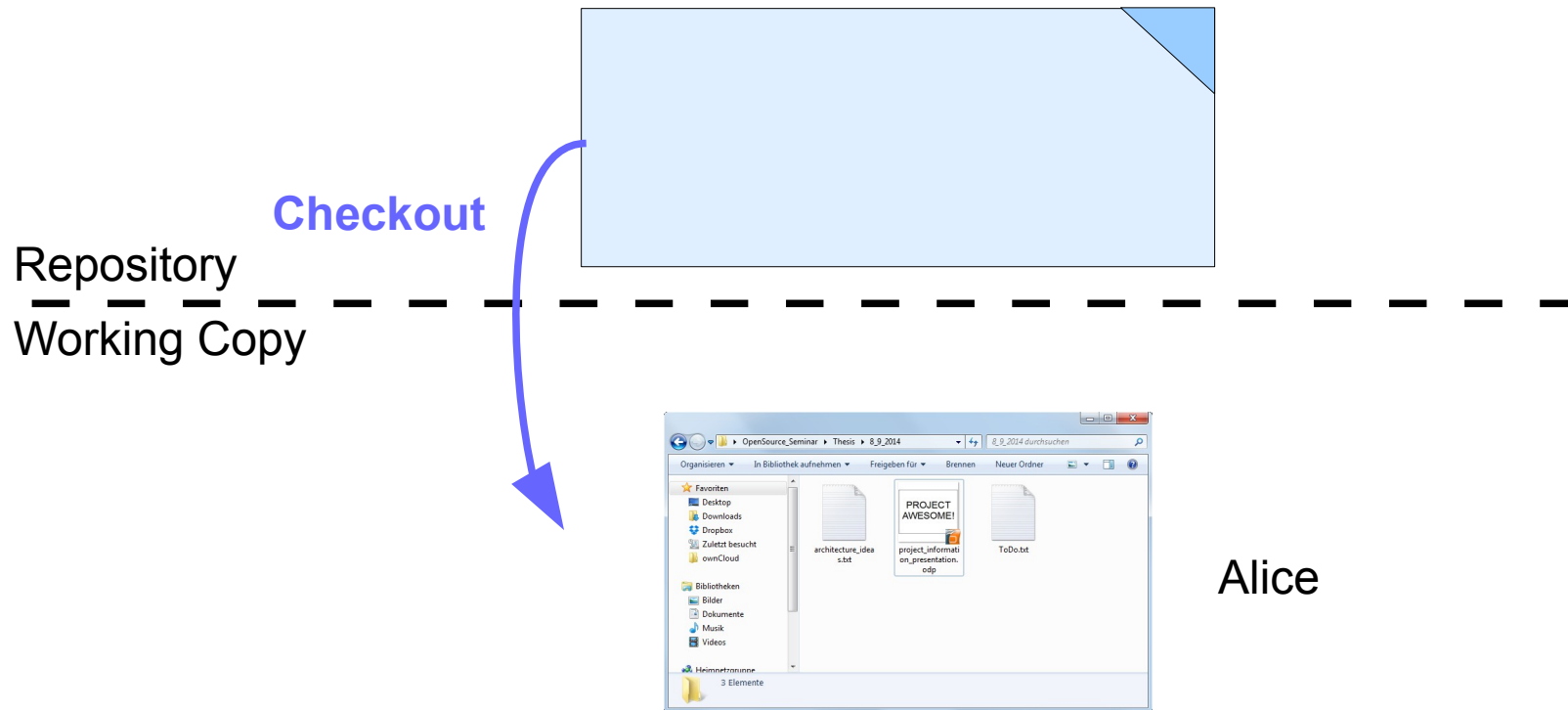


Zentrale Versionskontrolle

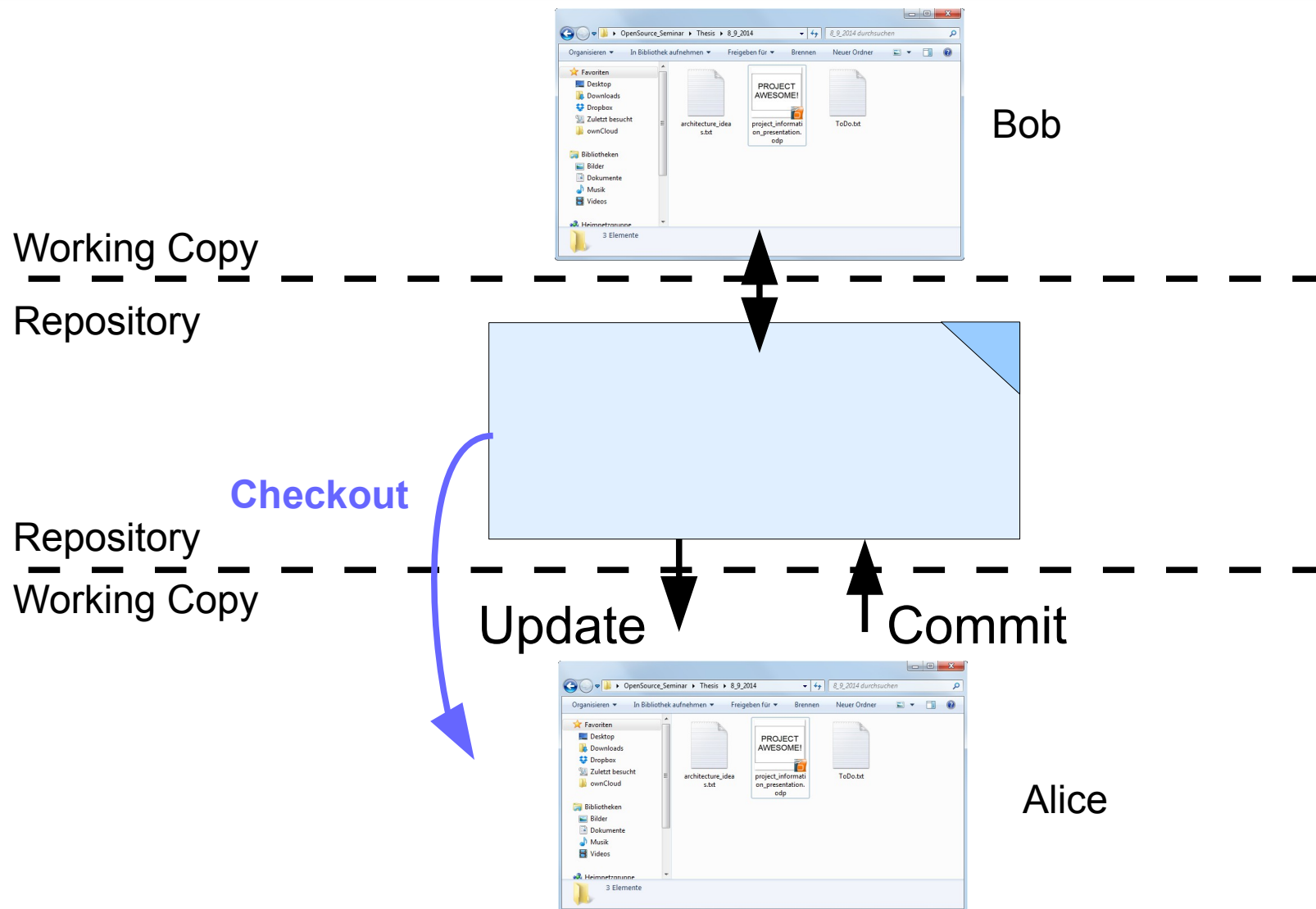
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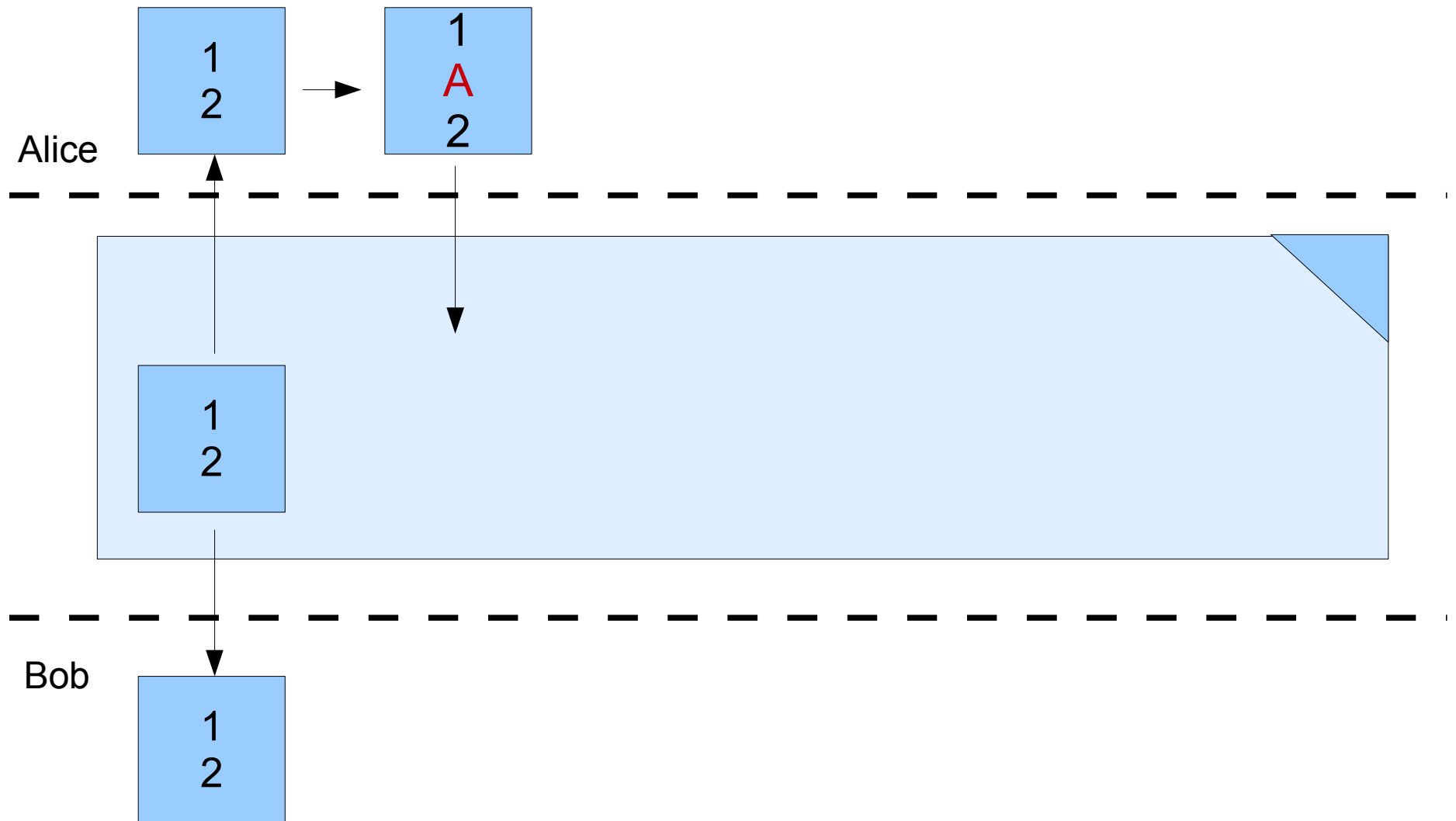
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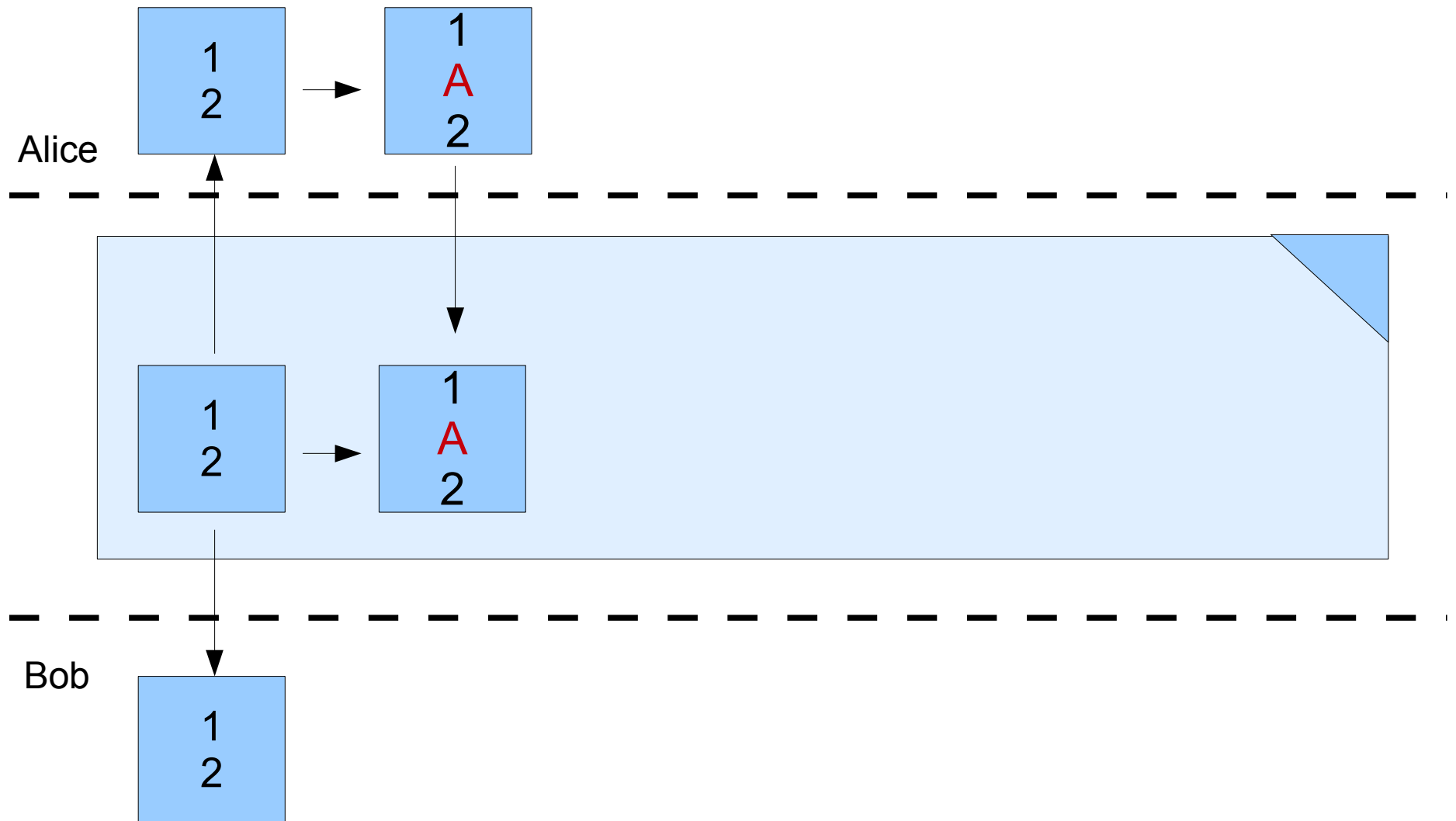


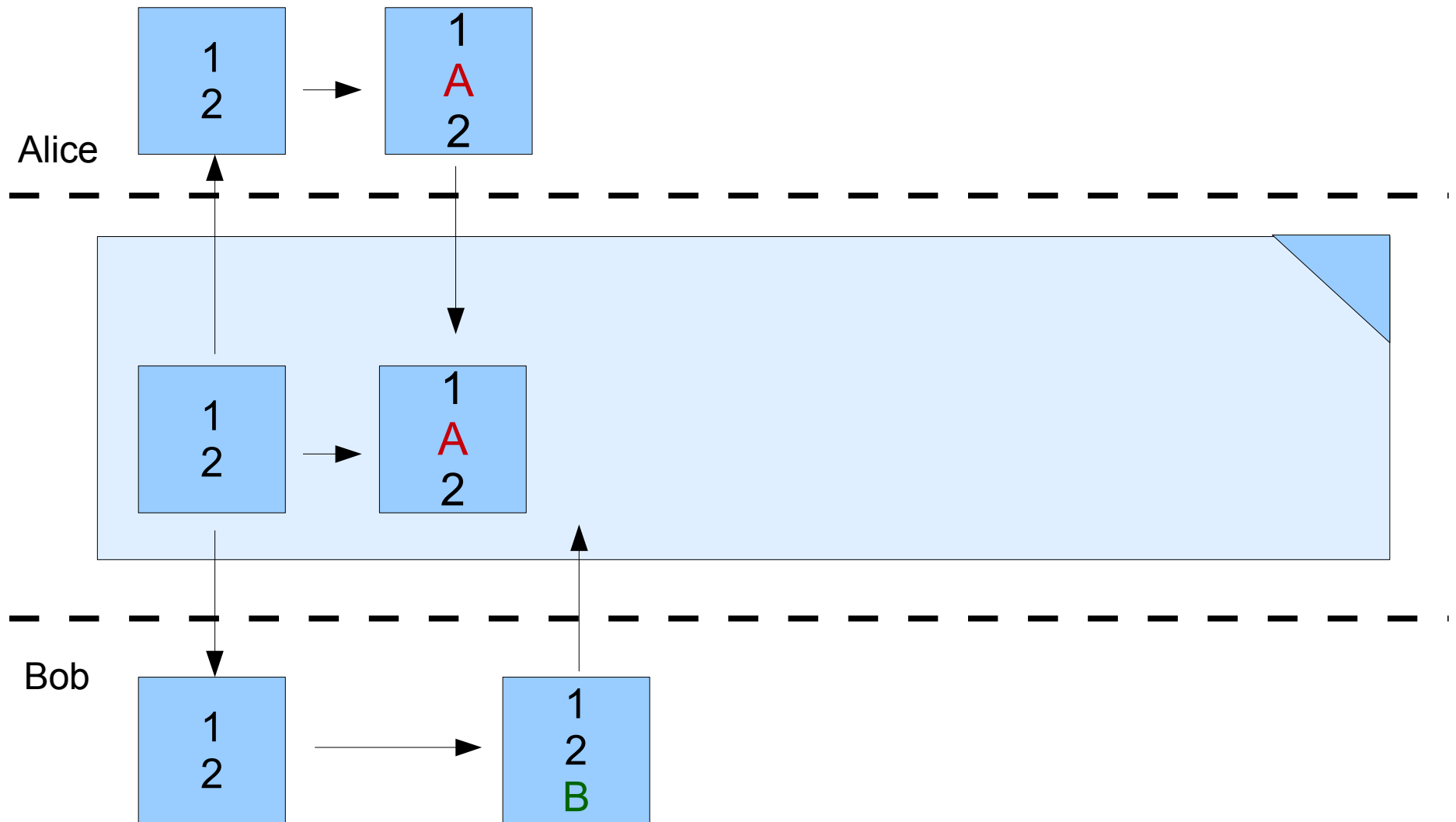
Zentrale Versionskontrolle

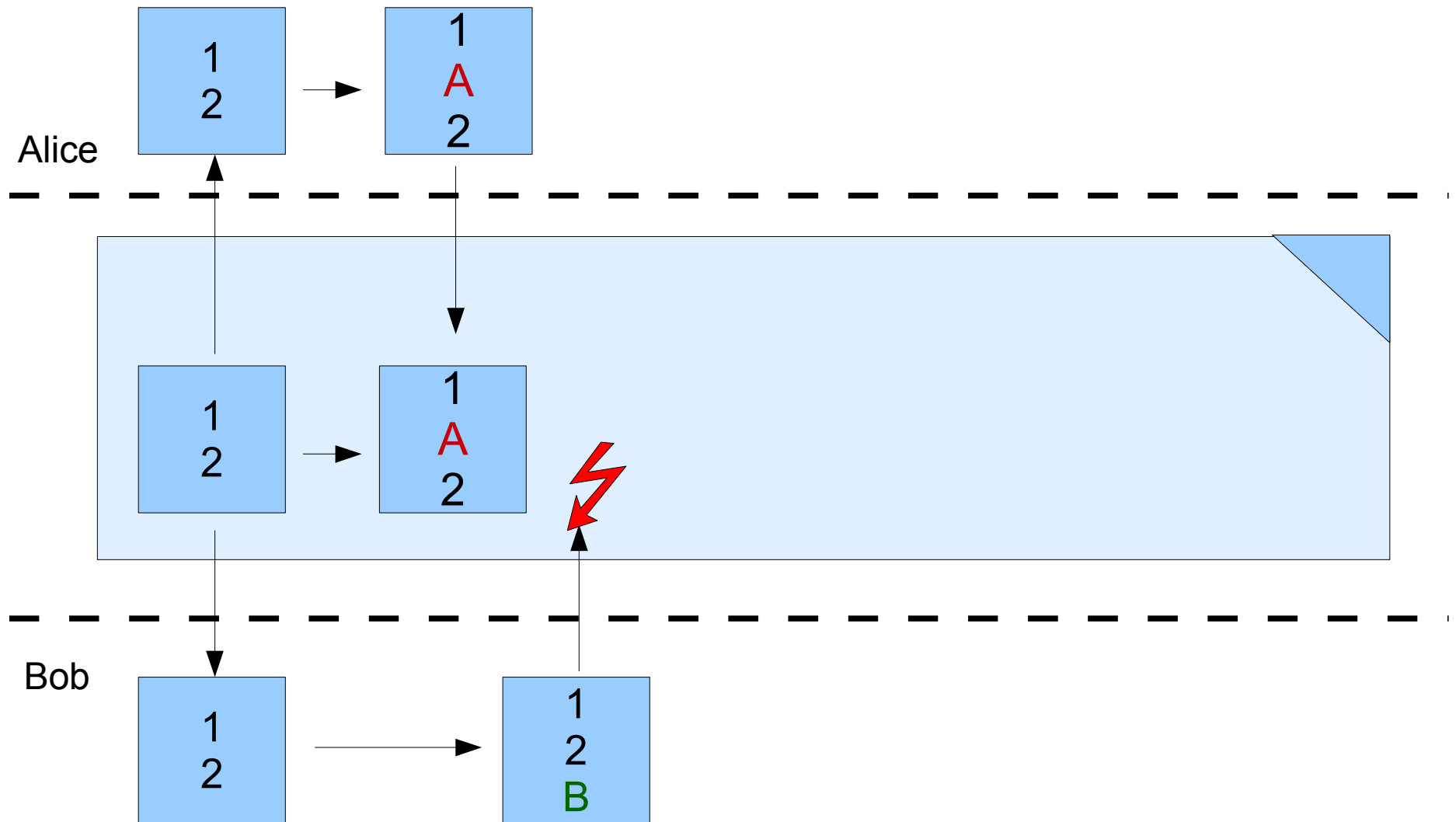


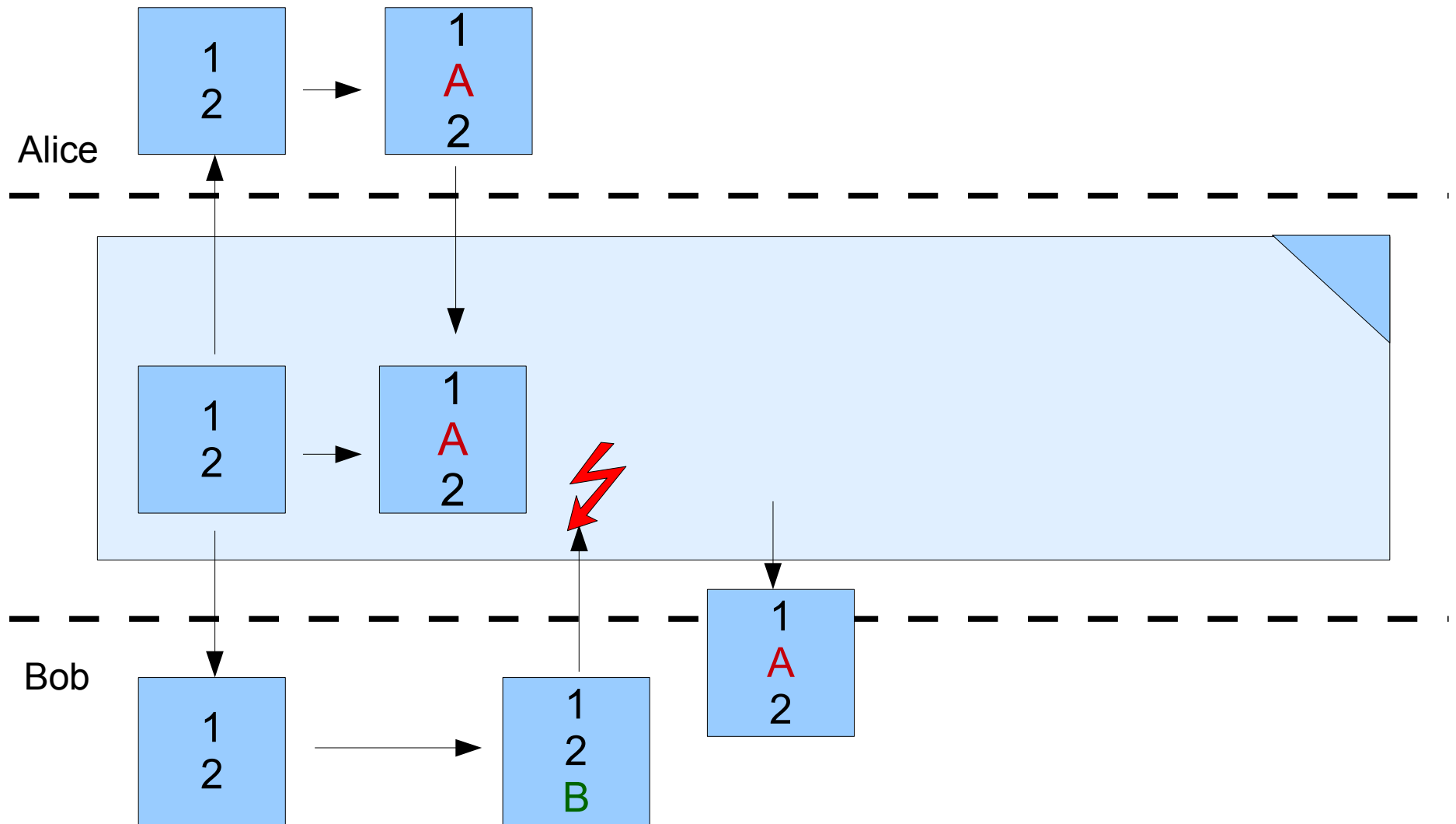


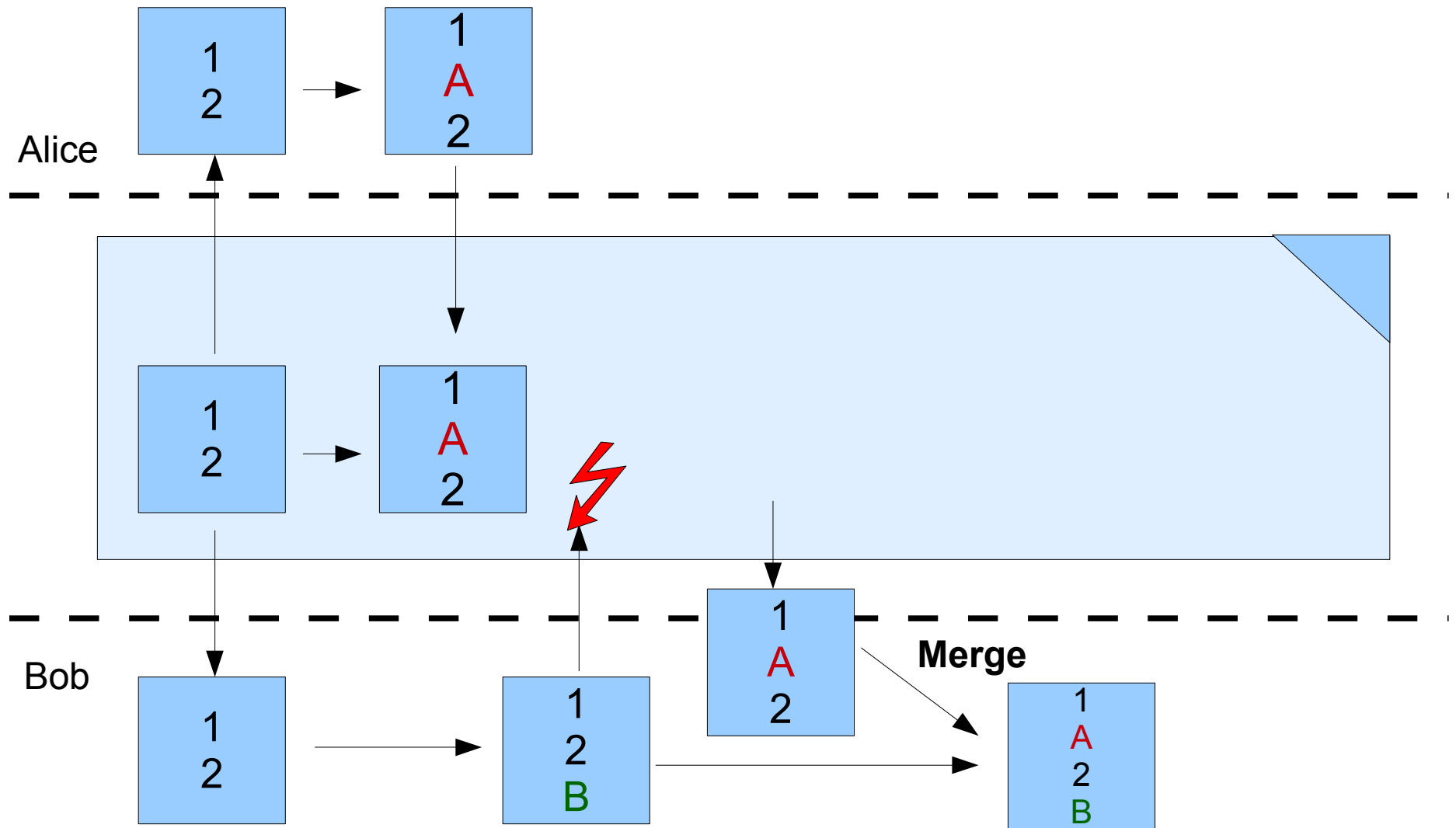


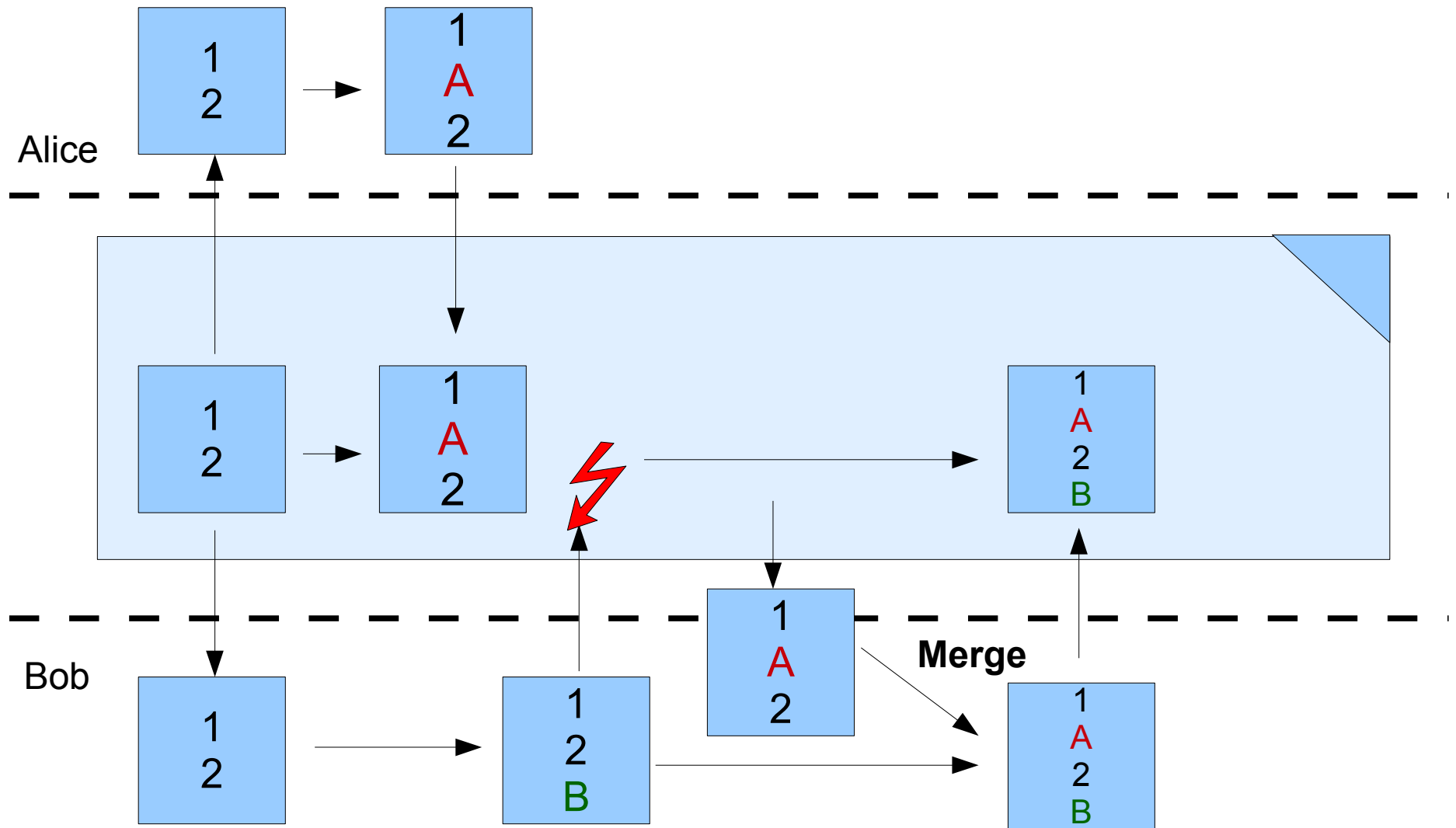




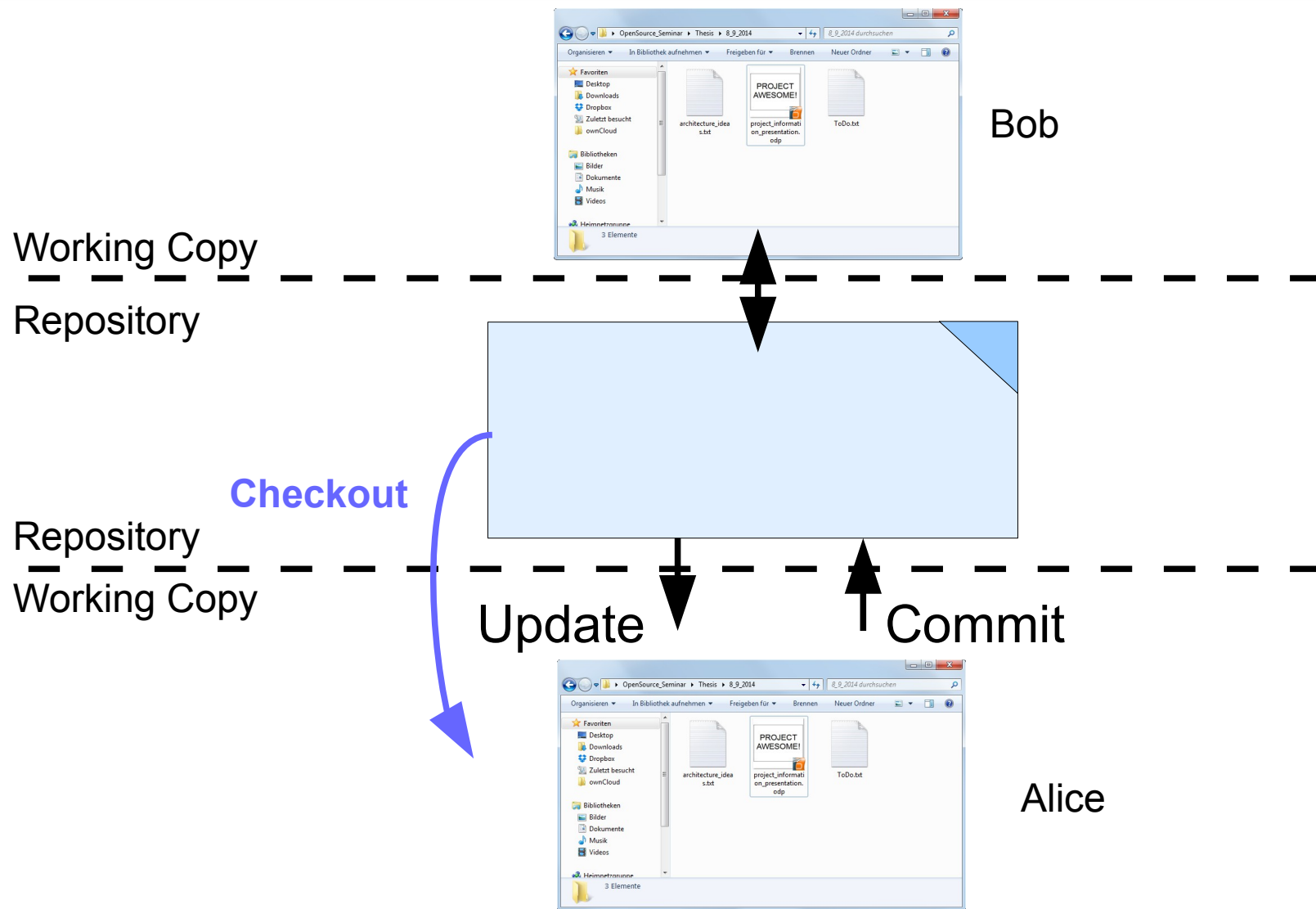








Zentrales Repository

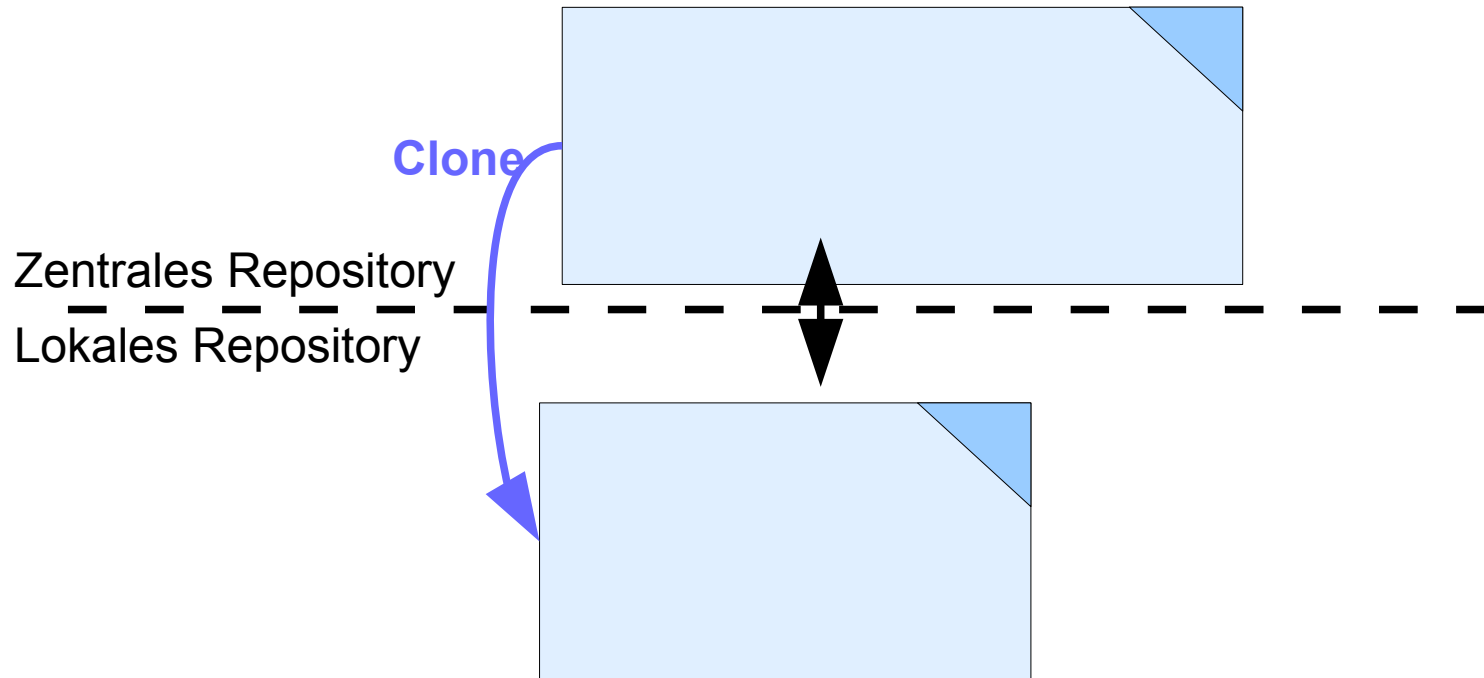




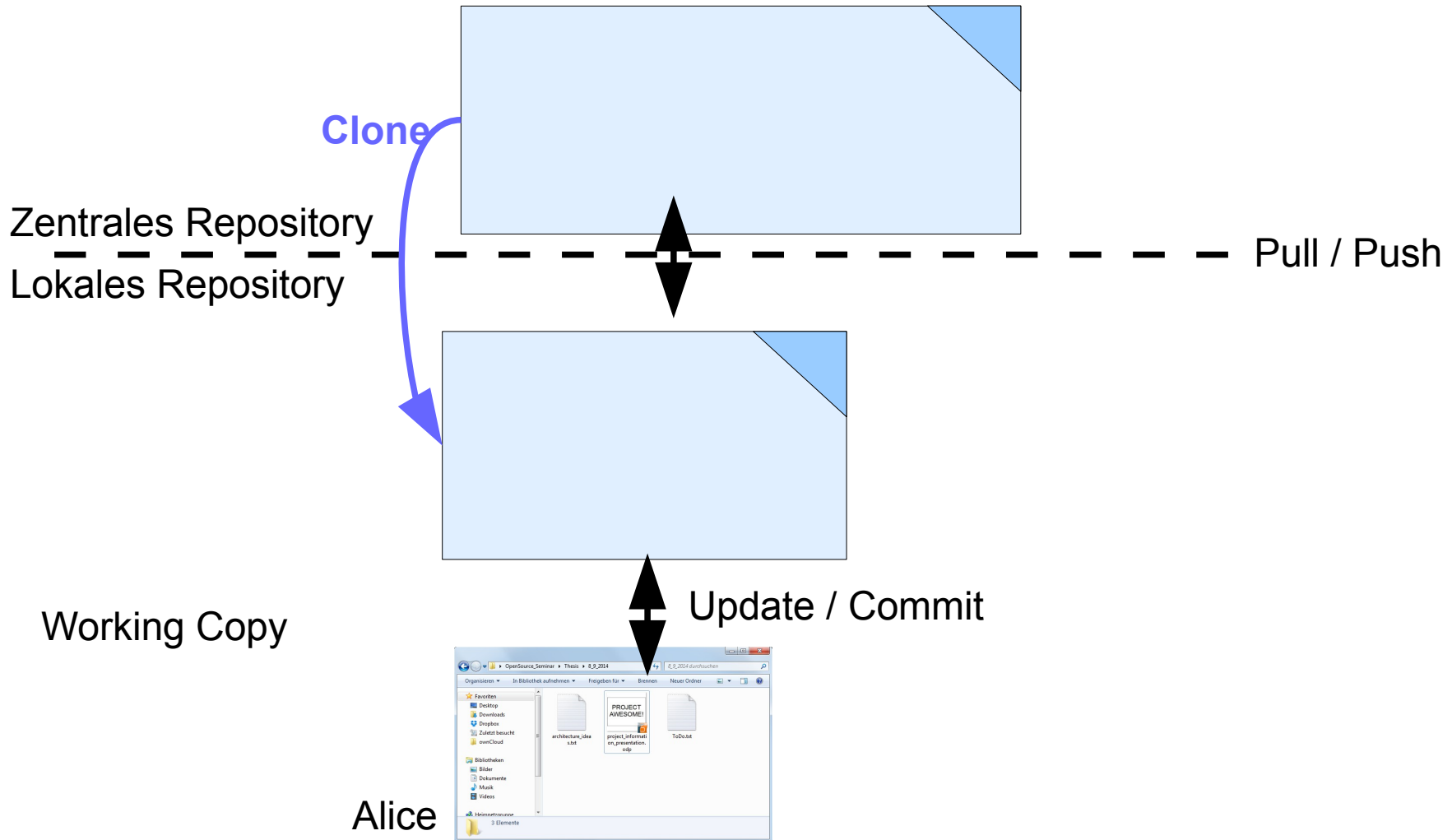
Verteilte Versionskontrolle

Zentrales Repository

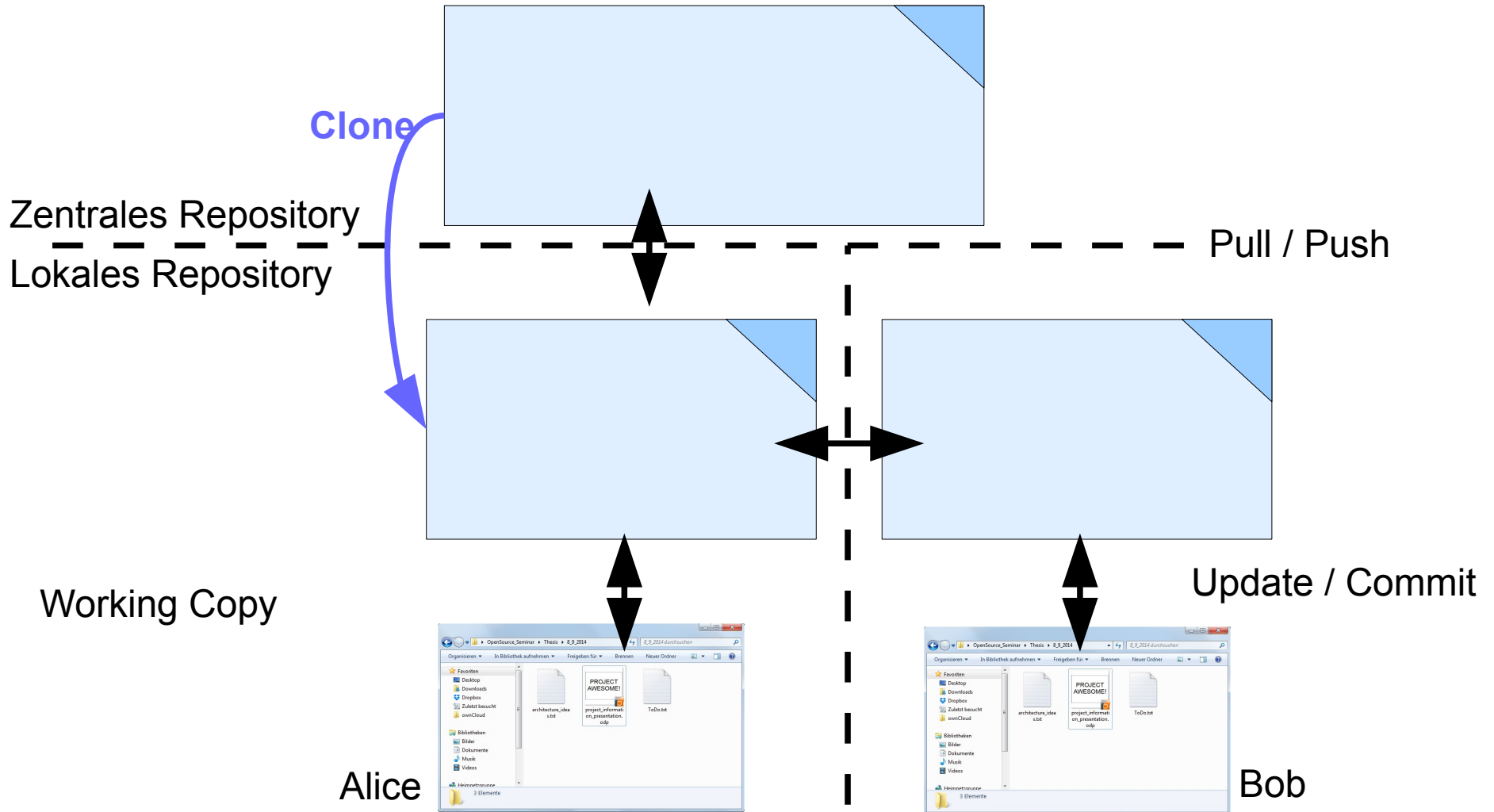




Verteilte Repository



Verteilte Repository





Hoster

source  **forge**

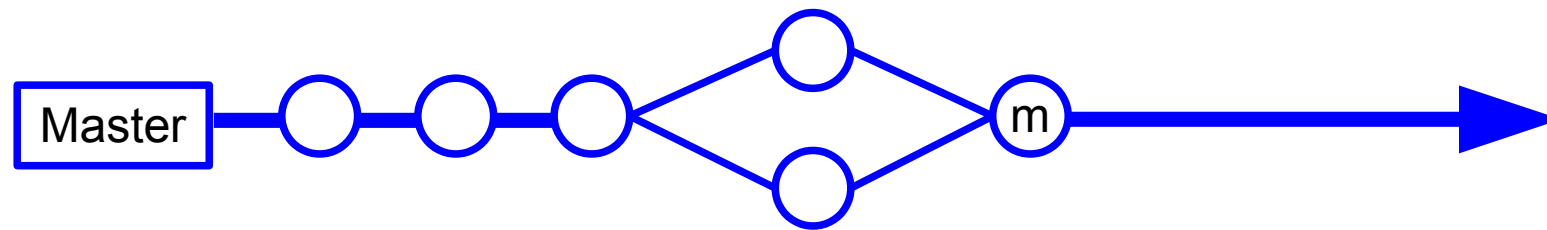
GitHub

Atlassian
 **Bitbucket**



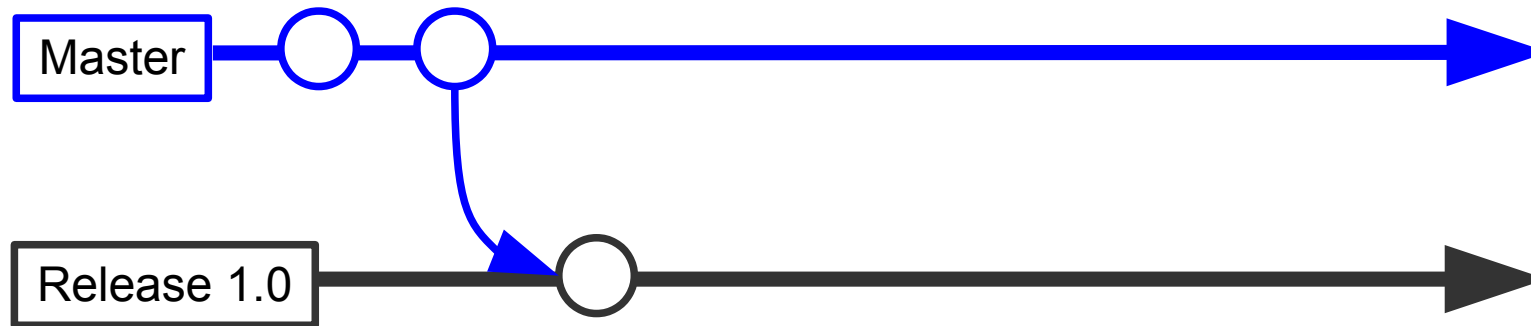
Branching Strategien

- No Branches
- Branch for Release
- Branch for Feature
- Branch for Team
- Gitflow

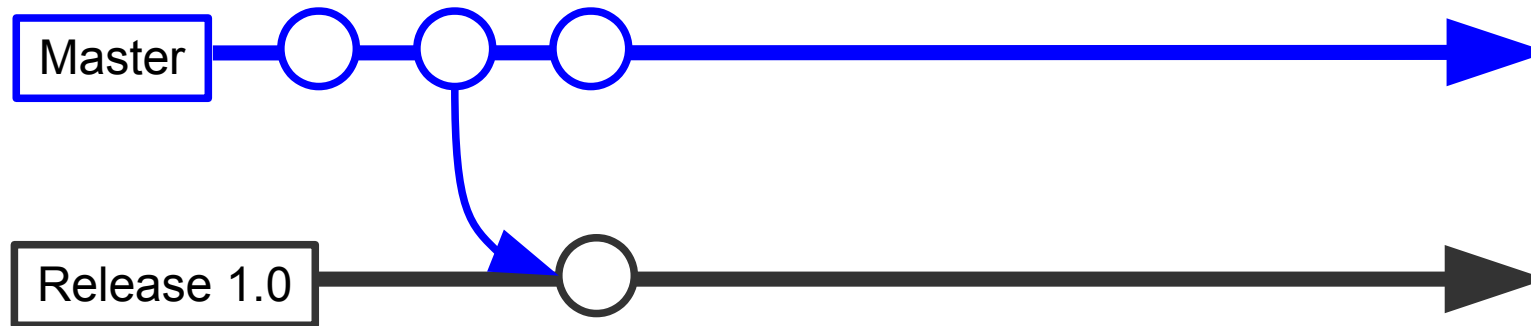




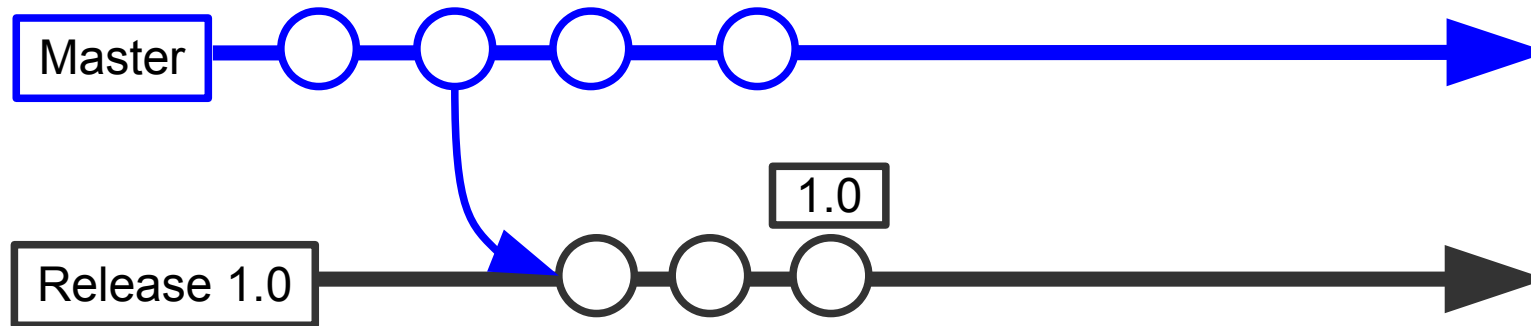
Branch for Release



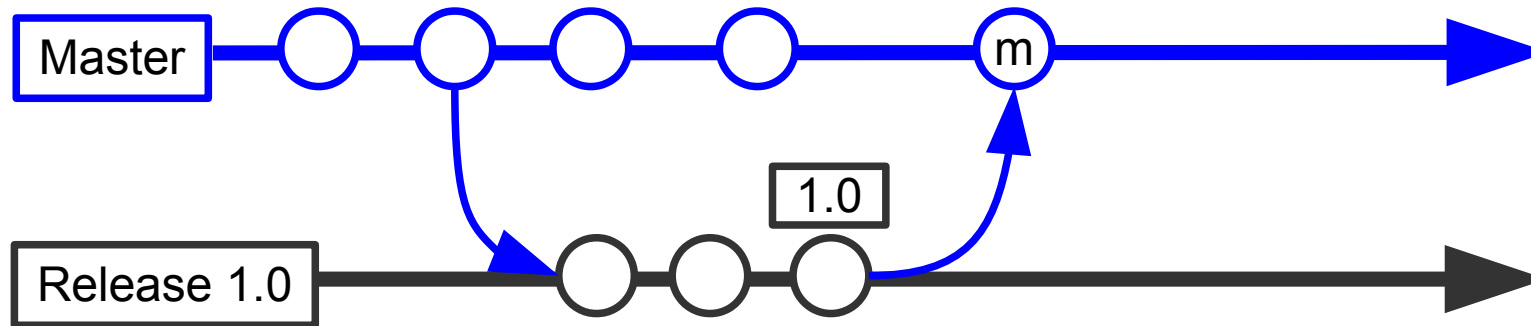
Branch for Release



Branch for Release

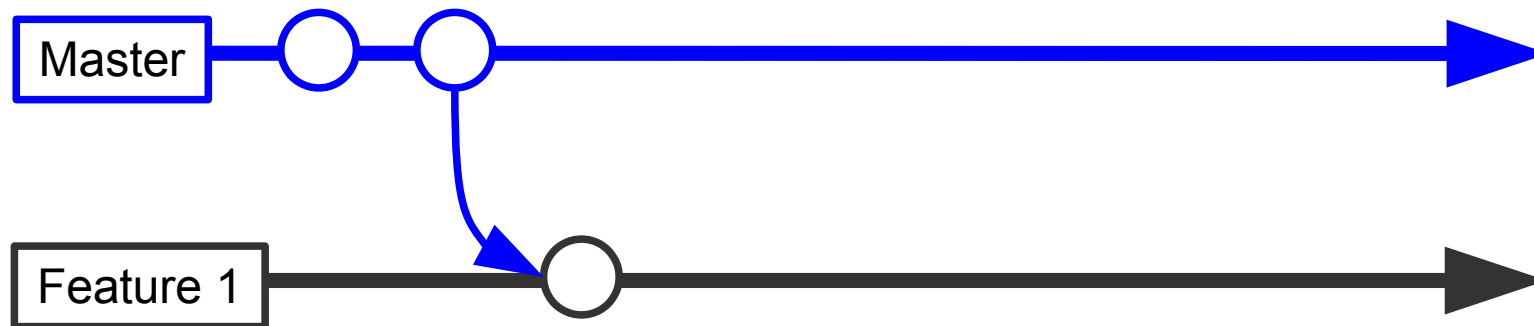


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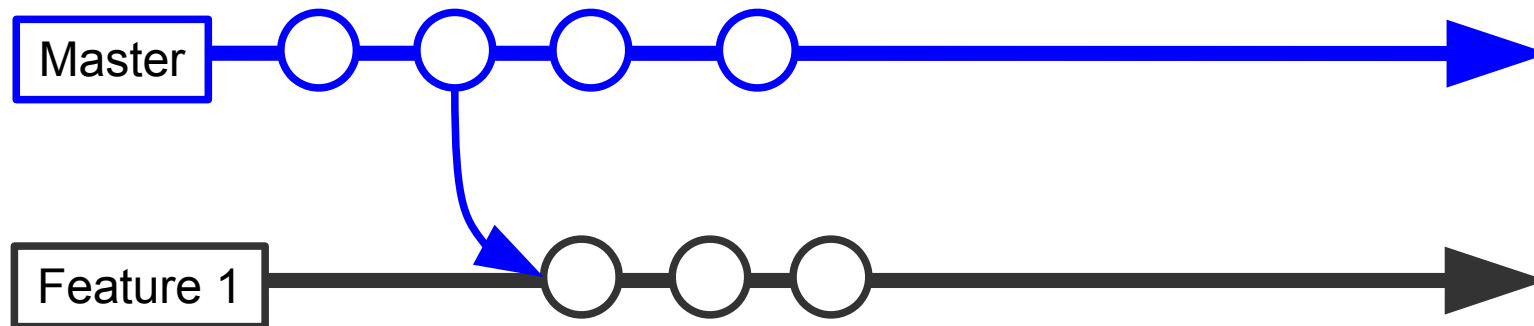




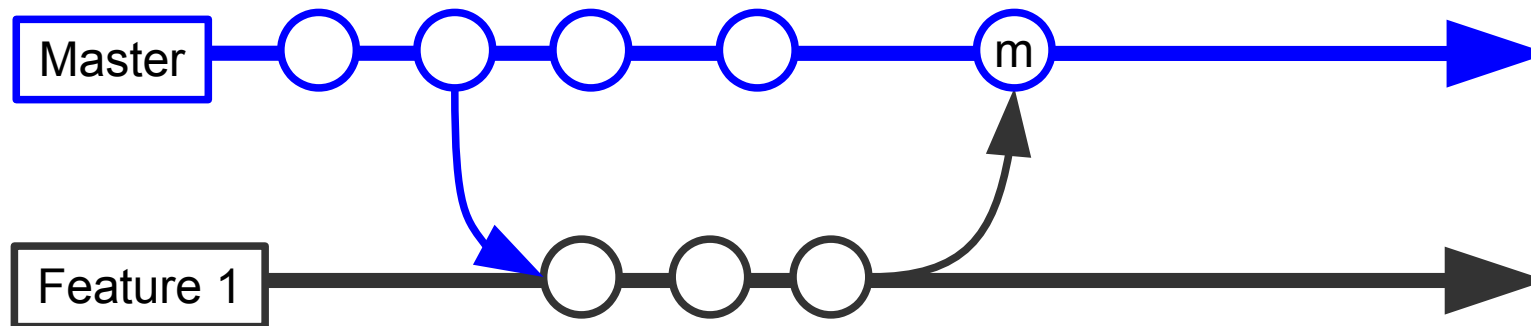
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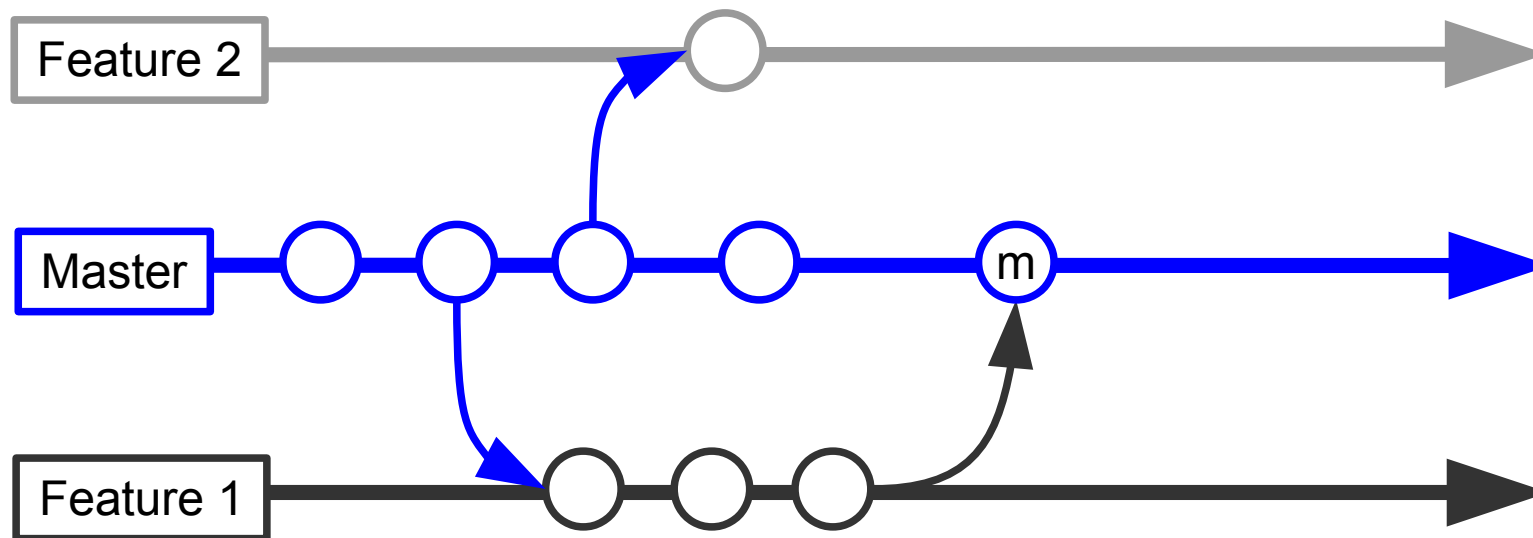
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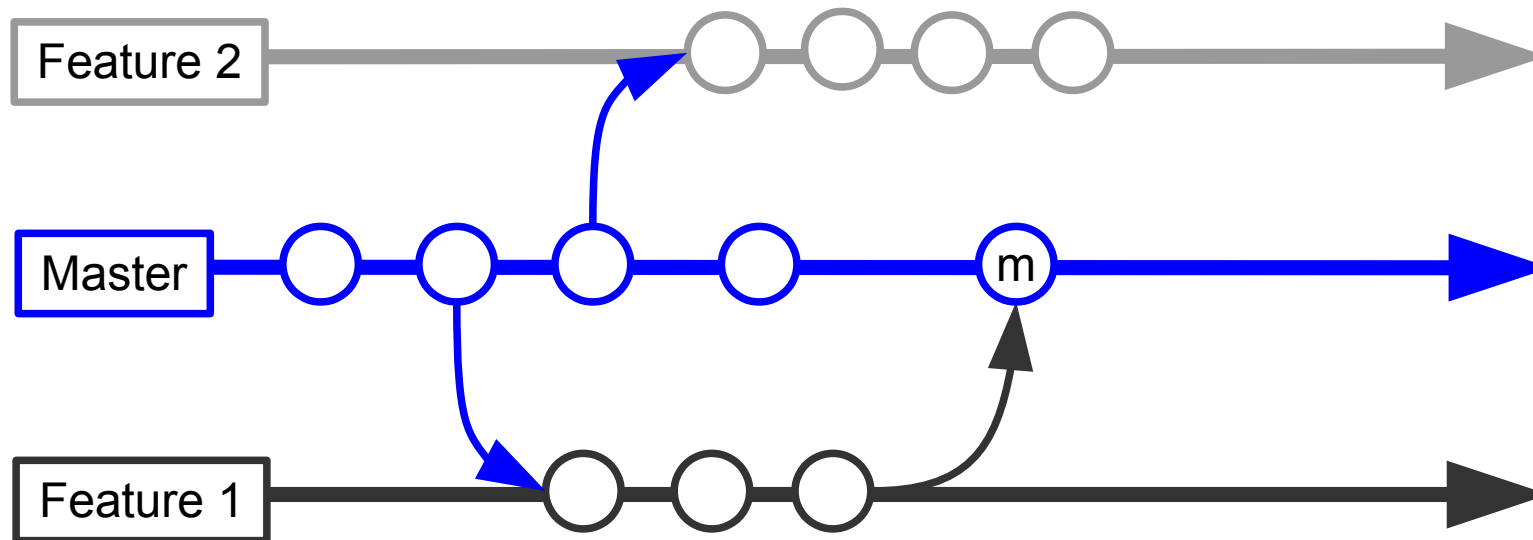
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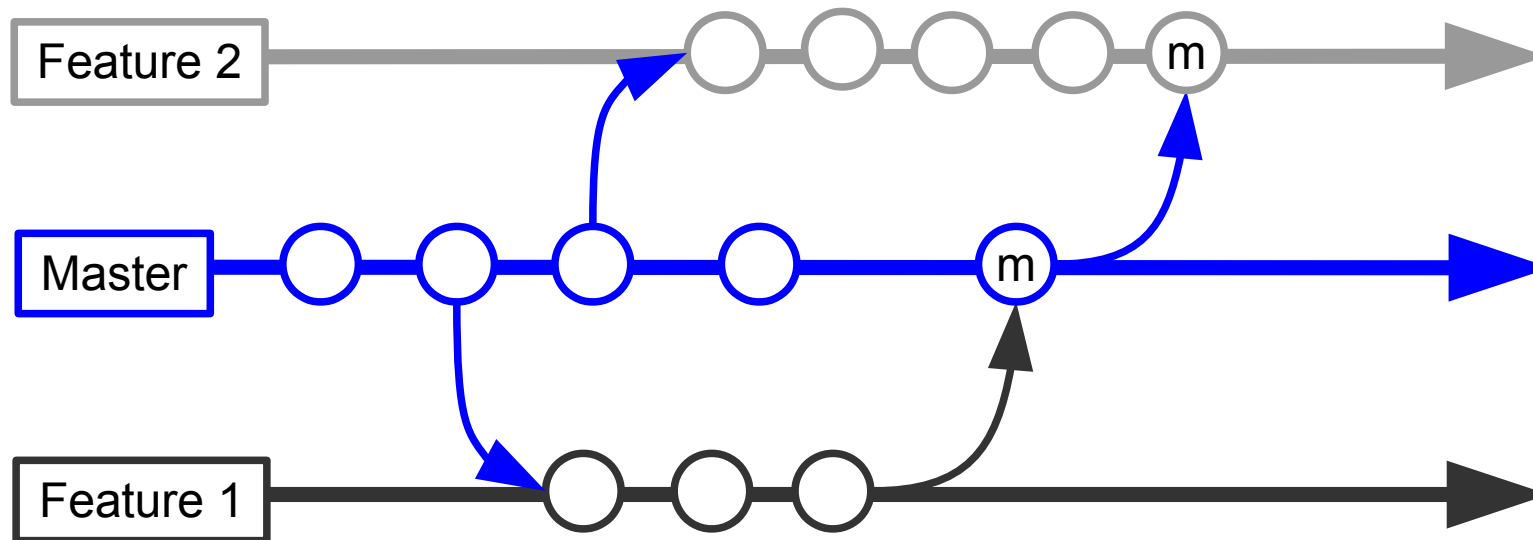
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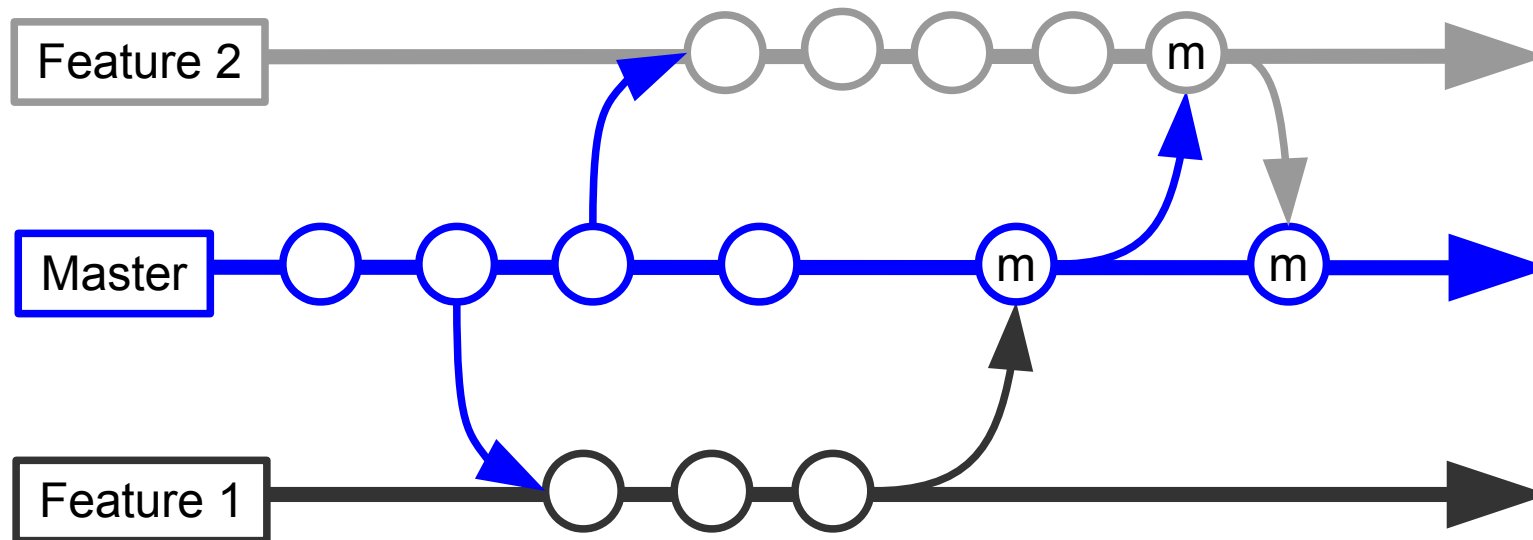
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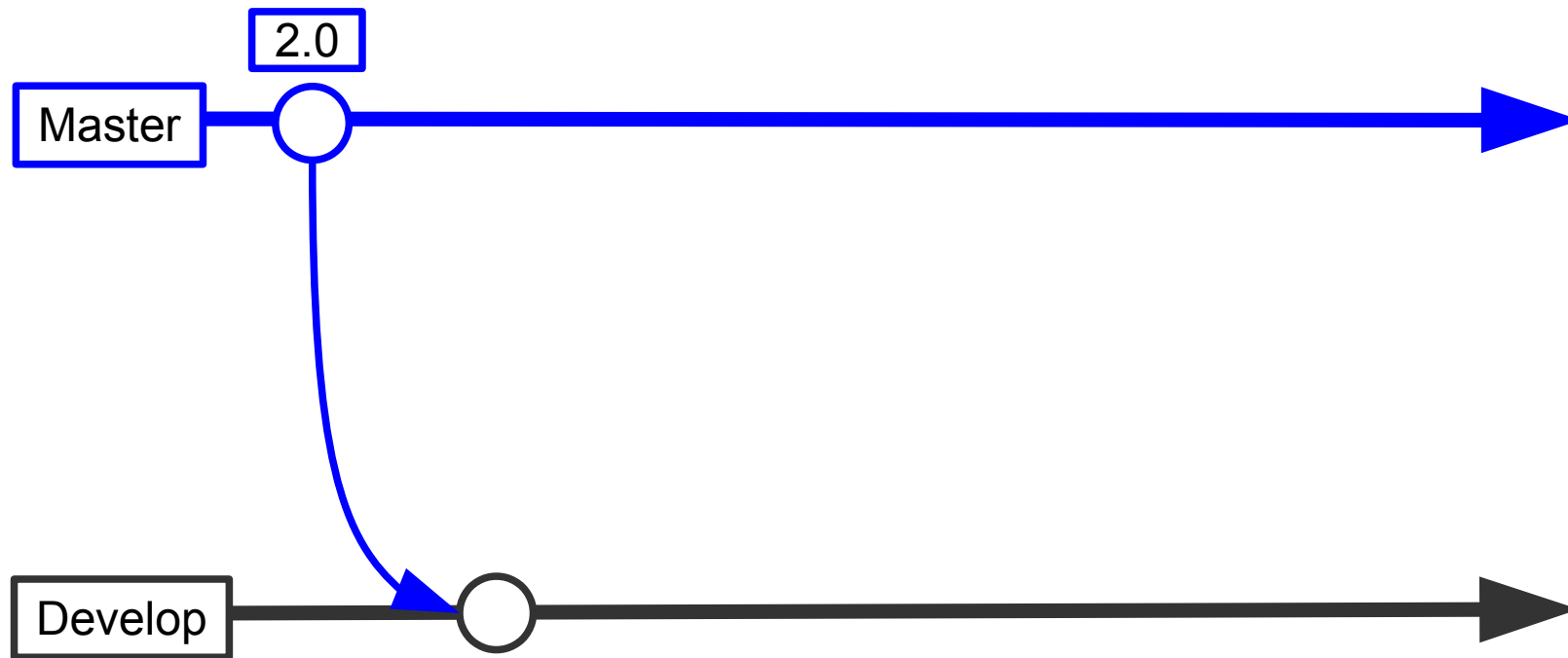
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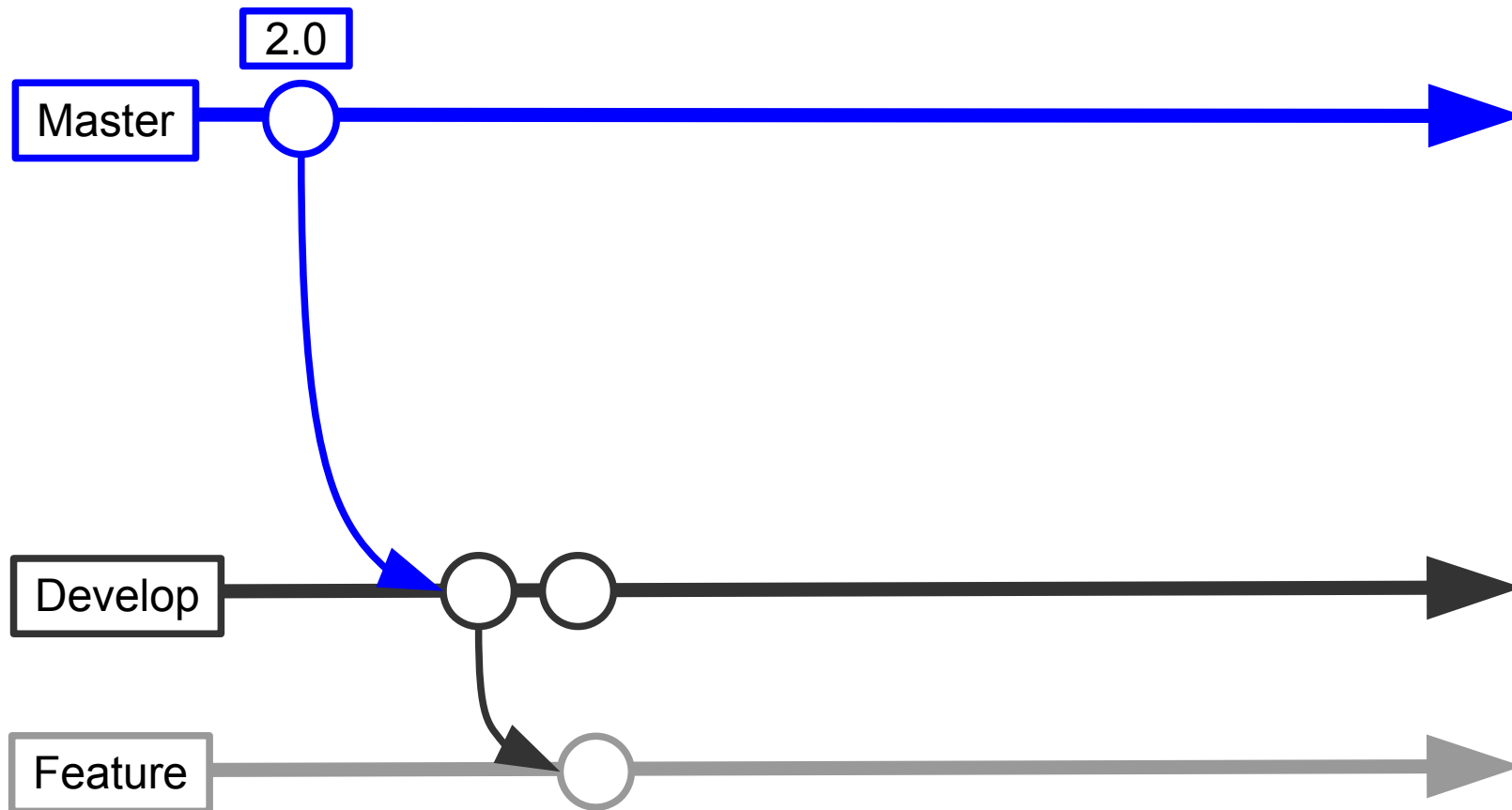


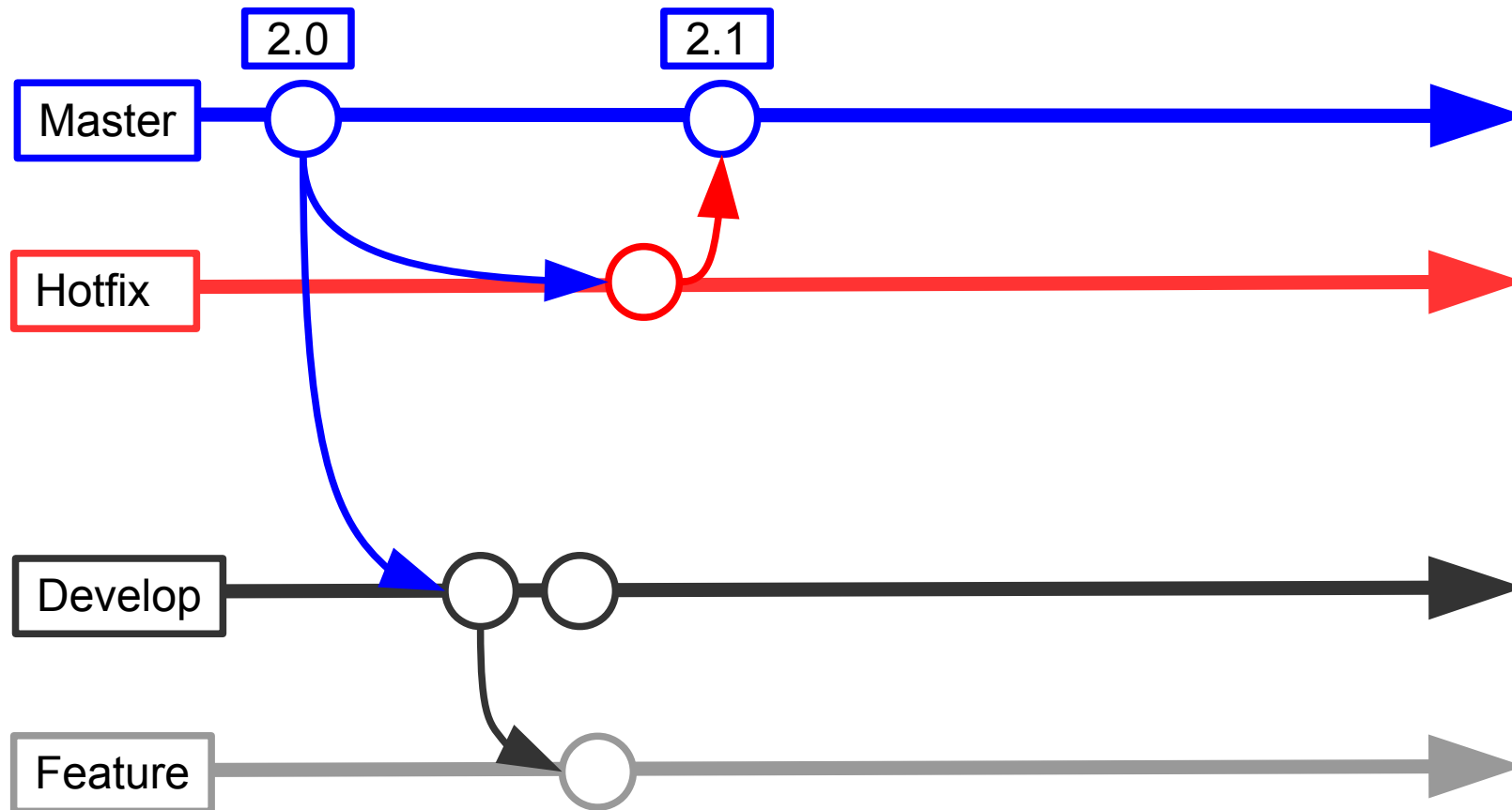
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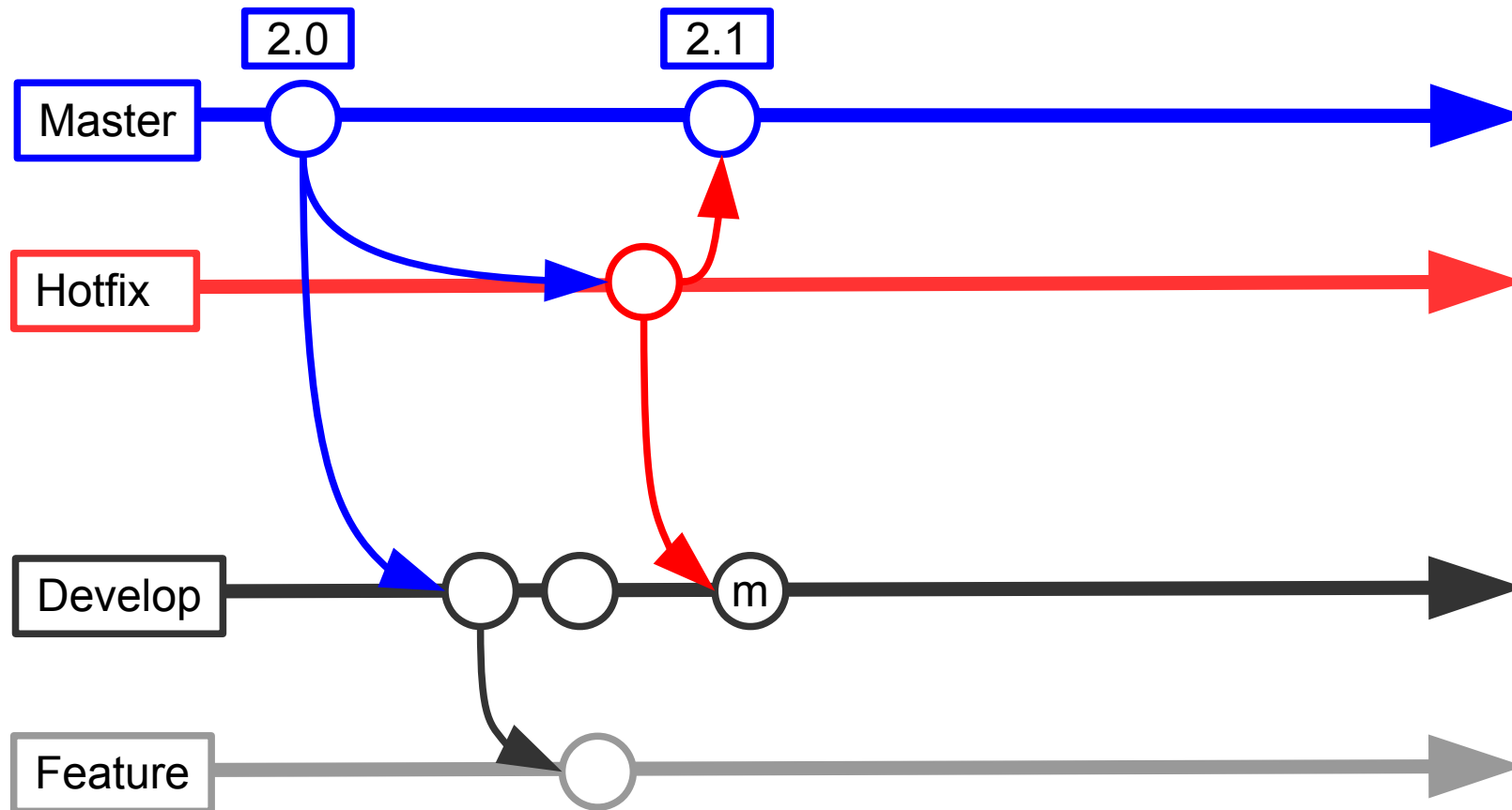


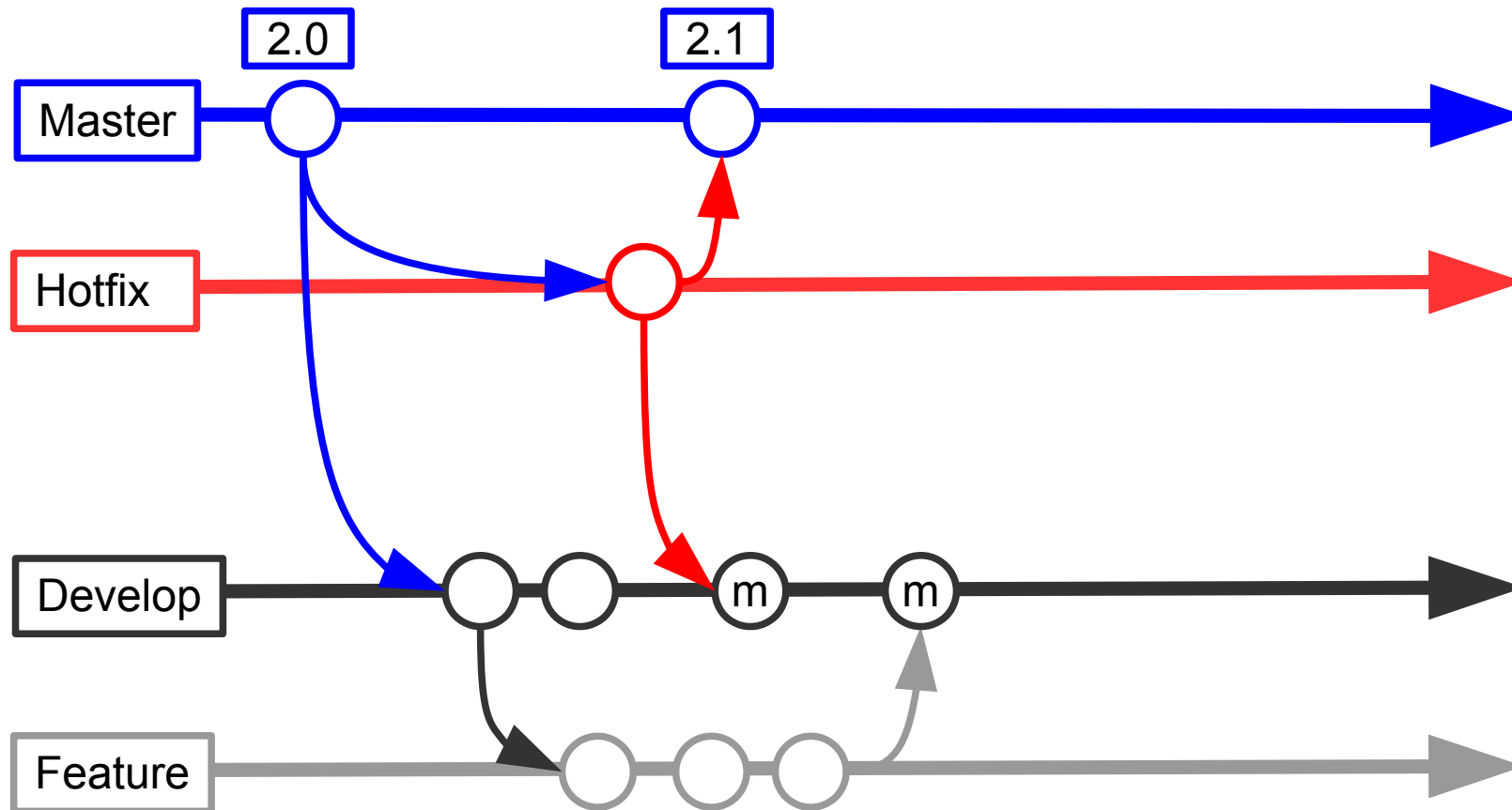


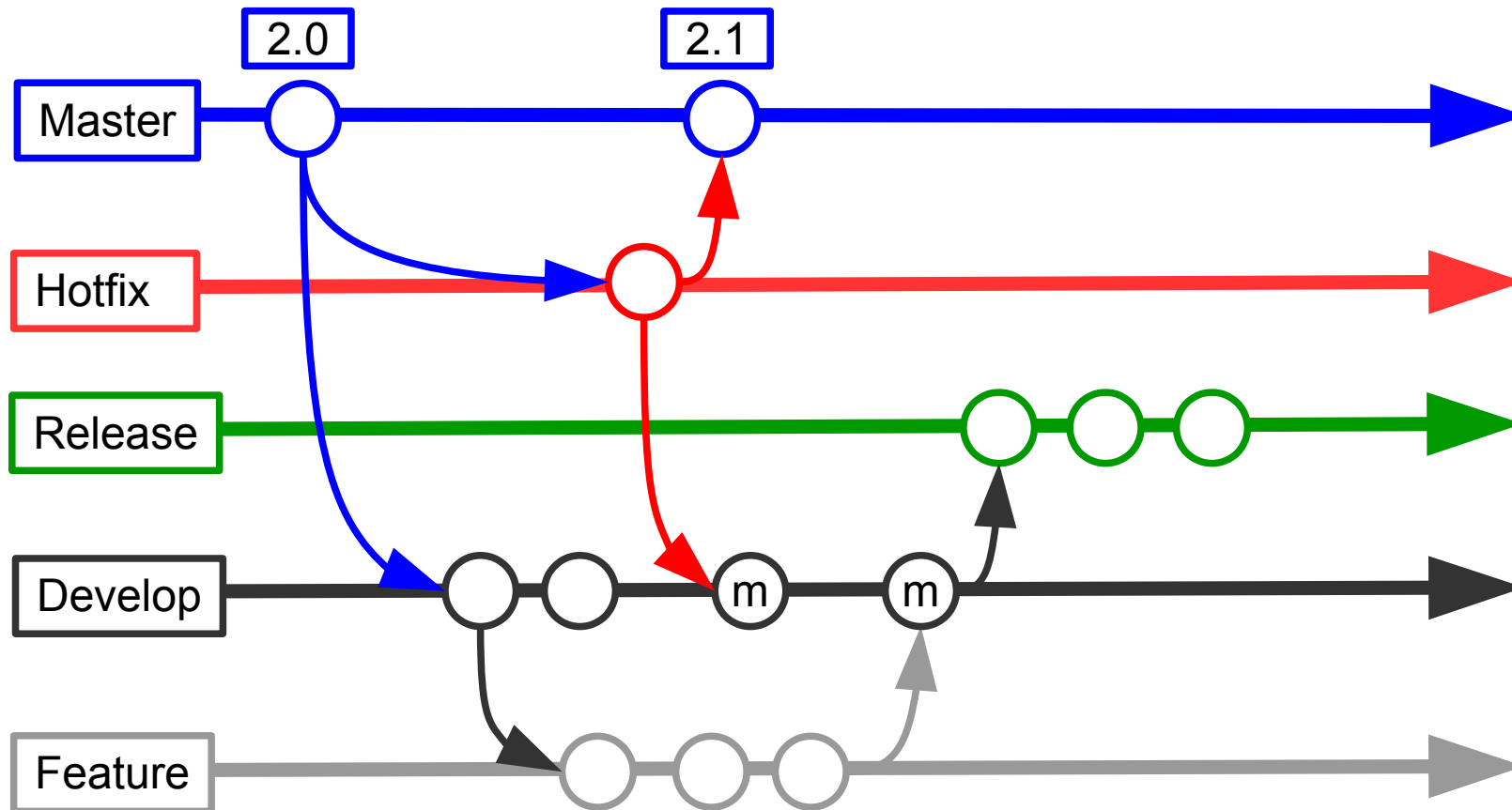


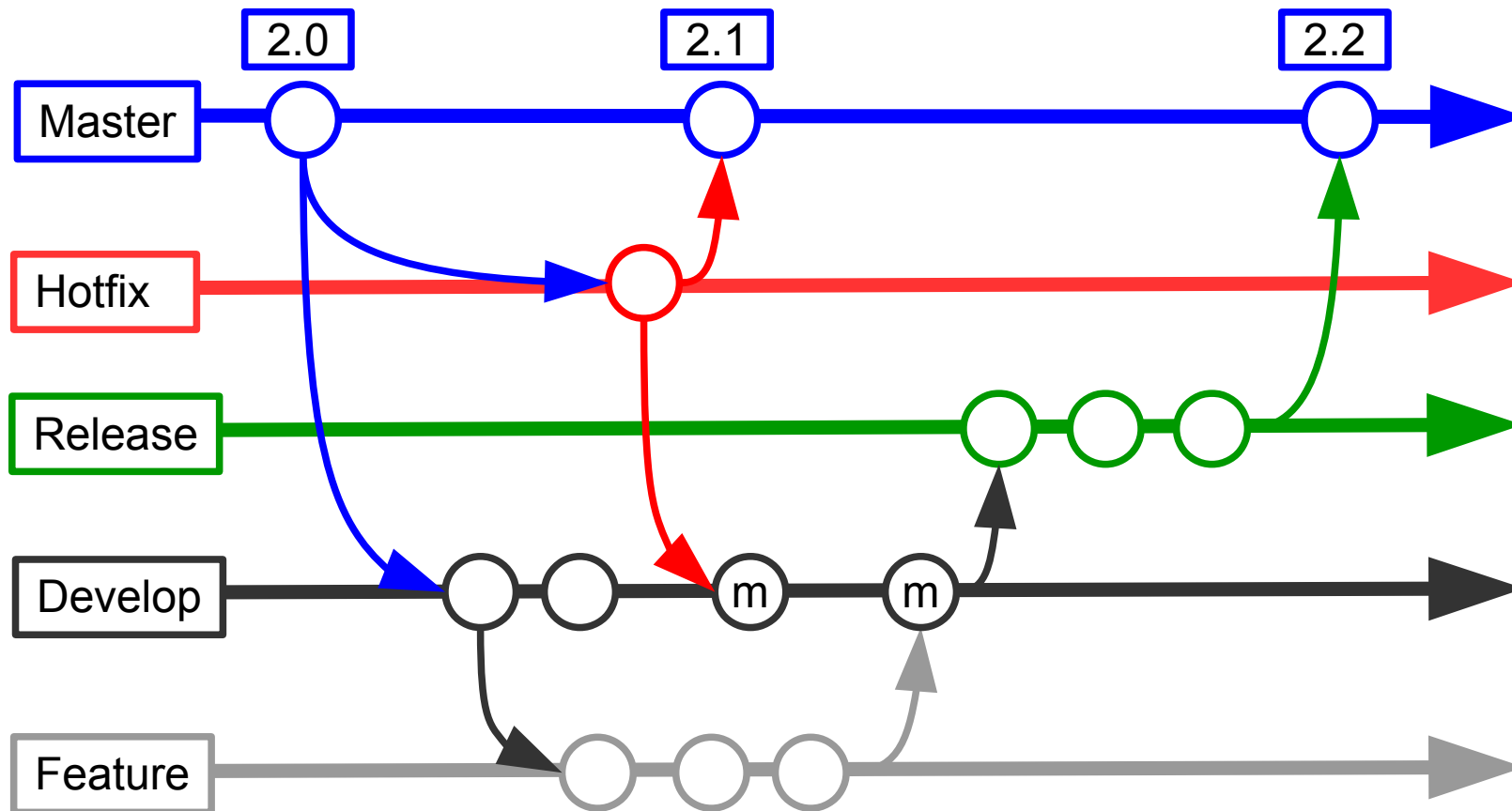


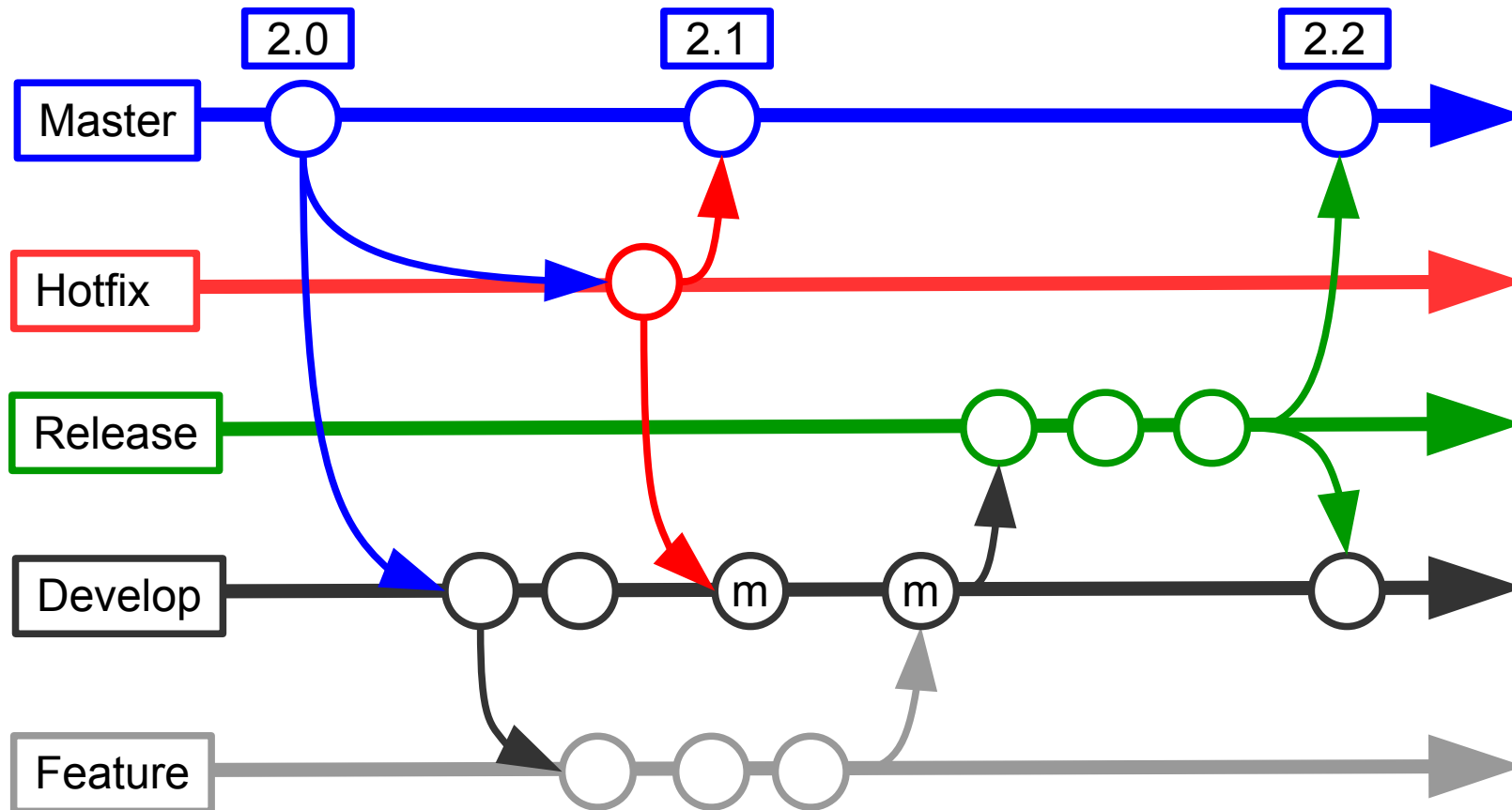














Take Home Message

- Nützlich und wichtige Tools
- Dezentralisierte VCS dominieren heute
- Festlegung einer Branchingstrategie ist wichtig
- Es gibt KEINEN Grund jedes noch so kleine Projekt ohne VCS zu bearbeiten.



Quellen

- Defining Your Branching and Merging Strategy:
<http://msdn.microsoft.com/en-us/library/bb668955.aspx>
- Atlassian Tutorials, Comparing Workflows:
<https://www.atlassian.com/git/tutorials/comparing-workflows/>
- Atlassian Stash – Git workflows in the Enterprise:
<https://www.youtube.com/watch?v=gLWSJXBbJuE>
- Please. Stop Using Git. - Matthew Mc Cullough
<https://www.youtube.com/watch?v=o4PFDKlc2fs/>