

FAST, FLEXIBLE AND FUN: REVISION CONTROL WITH MERCURIAL

Martin Geisler
<mg@aragost.com>

Open Business Lunch
September 9th, 2010



OUTLINE

CENTRALIZED VS DISTRIBUTED

WORKFLOWS

WRAPPING UP



OUTLINE

CENTRALIZED VS DISTRIBUTED

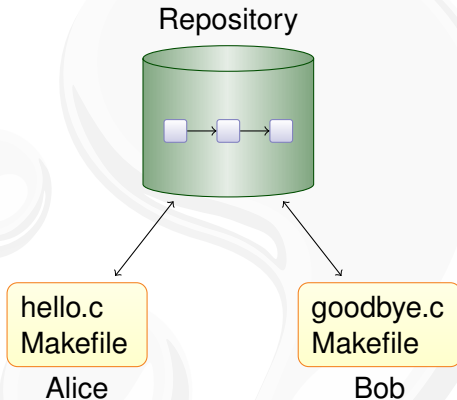
WORKFLOWS

WRAPPING UP



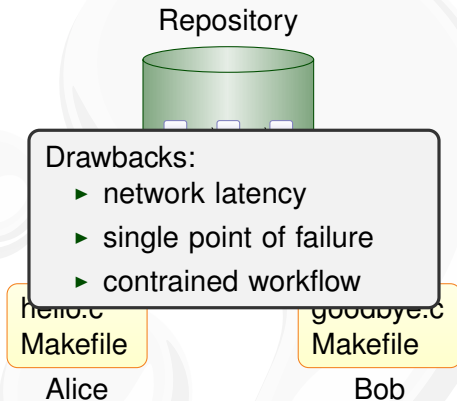
CENTRALIZED REVISION CONTROL

Single repository, multiple working copies:



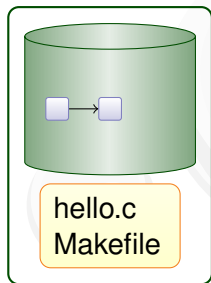
CENTRALIZED REVISION CONTROL

Single repository, multiple working copies:

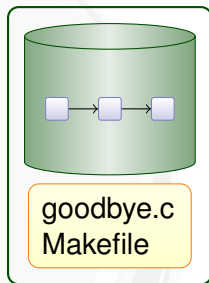


DISTRIBUTED REVISION CONTROL

Mercurial duplicates the history on many servers:



Alice

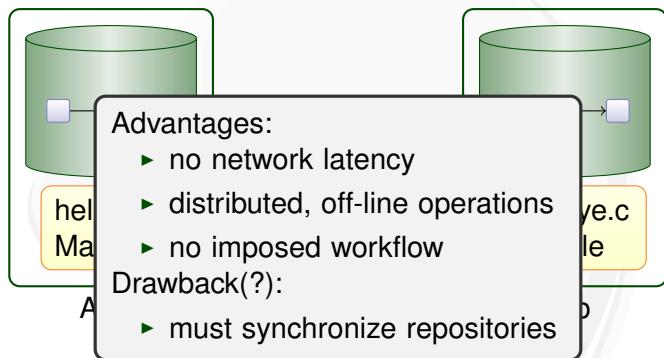


Bob



DISTRIBUTED REVISION CONTROL

Mercurial duplicates the history on many servers:



MOVING CHANGESETS AROUND

Pull and merge:

Alice



Bob



MOVING CHANGESETS AROUND

Pull and merge:

Alice



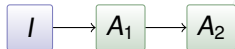
Bob



MOVING CHANGESETS AROUND

Pull and merge:

Alice



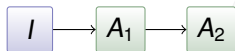
Bob



MOVING CHANGESETS AROUND

Pull and merge:

Alice

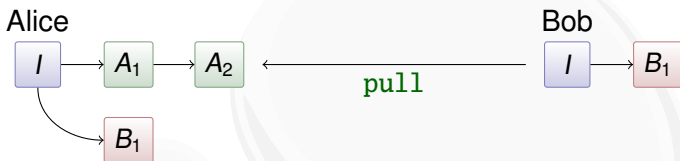


Bob



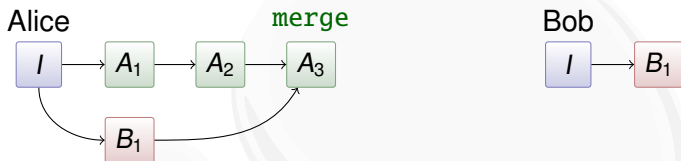
MOVING CHANGESETS AROUND

Pull and merge:



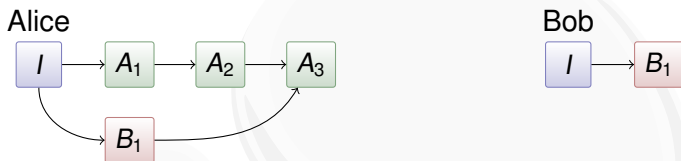
MOVING CHANGESETS AROUND

Pull and merge:



MOVING CHANGESETS AROUND

Pull and merge:

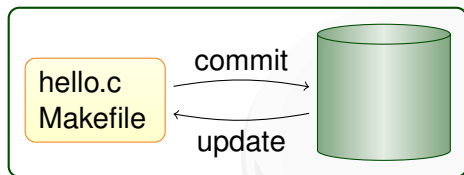


Merging:

- ▶ find common ancestor of A_2 and B_1 : I
- ▶ compute differences between I and B_1
- ▶ apply them to A_2 , taking renames into account



KEY MERCURIAL COMMANDS



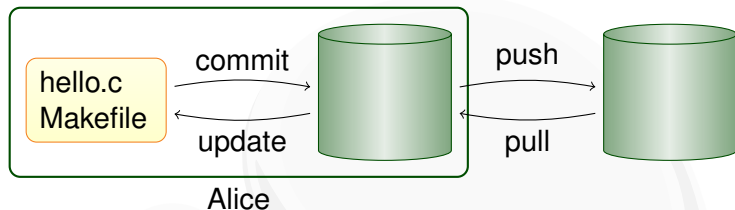
Alice

Local commands:

- ▶ **hg commit**: save a snapshot into the current repository
- ▶ **hg update**: checkout revision into working directory
- ▶ **hg merge**: join different lines of history



KEY MERCURIAL COMMANDS



Local commands:

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Network commands:

- ▶ **hg pull**: retrieve changesets from another repository
- ▶ **hg push**: send your changesets to another repository



OUTLINE

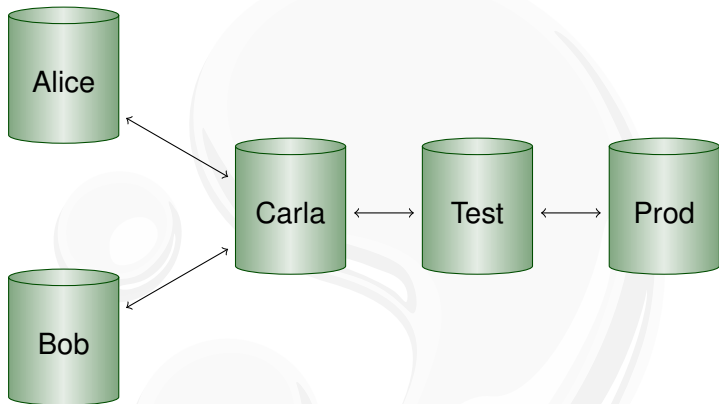
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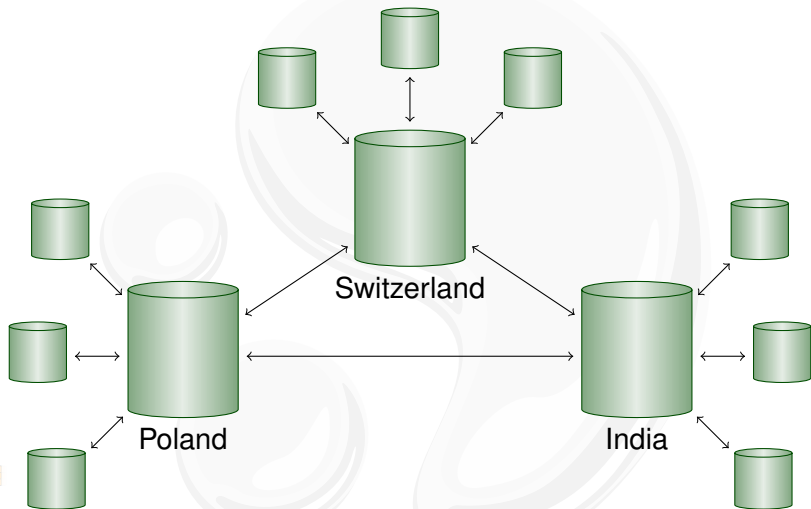
WRAPPING UP



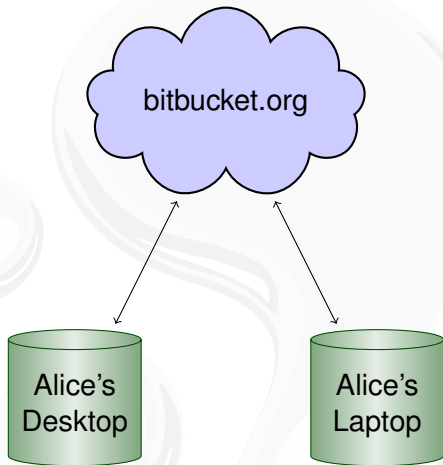
WORKFLOW IN A TEAM



WORKFLOW BETWEEN COMPANY DIVISIONS



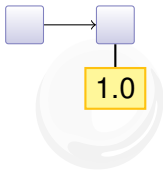
WORKFLOW BETWEEN TWO COMPUTERS



RELEASE BRANCHES



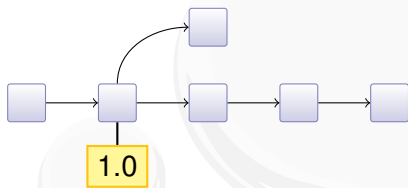
RELEASE BRANCHES



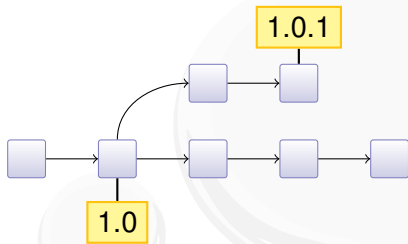
RELEASE BRANCHES



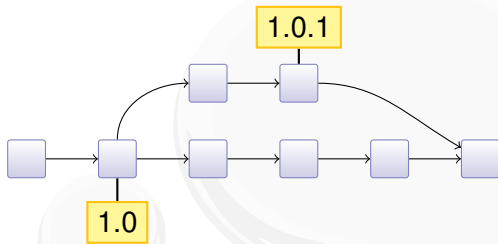
RELEASE BRANCHES



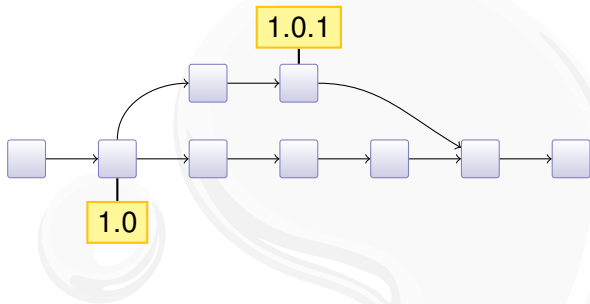
RELEASE BRANCHES



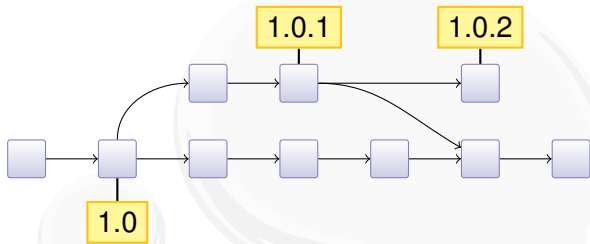
RELEASE BRANCHES



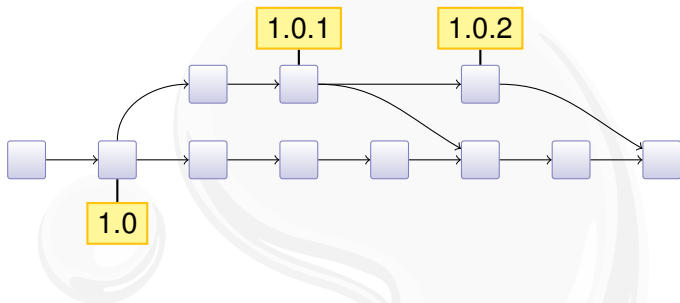
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MERCURIAL IN A NUTSHELL

Mercurial changes the way you develop:

- ▶ simple yet strong model for **both** branching and merging
- ▶ power tool instead of necessary evil
- ▶ light-weight and snappy



MORE INFORMATION

- ▶ Mercurial homepage:
<http://mercurial.selenic.com/>
- ▶ *Mercurial: The Definitive Guide*:
<http://hgbook.red-bean.com/>
- ▶ Getting Started:
<http://mercurial.aragost.com/kick-start/>
<http://mercurial.ch/>
<http://hginit.com/>
- ▶ Some free Mercurial hosting sites:
<http://bitbucket.org/>
<http://code.google.com/>
<http://sourceforge.net/>
<http://www.codeplex.com/>



CONTACT

Please get in touch if you have more questions or have considered using Mercurial in your organization:

- ▶ Email: mg@aragost.com
- ▶ IRC: [mg](#) in [#mercurial](#) on [irc.freenode.net](#)



MERCURIAL CONTRIBUTORS

From <http://ohloh.net/p/mercurial/map:>



Showing 50 of [325 contributors](#).

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