En introduktion till git

SolidBeans

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Kort historia

http://git-scm.com

Home | About Git | Documentation | Download | Tools & Hosting | Wiki

Git is...

Git is a **free & open source, distributed version control system** designed to handle everything from small to very large projects with speed and efficiency.

Every Git clone is a full-fledged repository with complete history and full revision tracking capabilities, not dependent on network access or a central server. **Branching and merging are fast** and easy to do.

Git is used for version control of files, much like tools such as Mercurial, Bazaar, Subversion, CVS, Perforce, and Visual SourceSafe.

Projects using Git

- Git
- Linux Kernel
- Perl
- Gnome
- Qt
- Ruby on Rails
- Android
- Wine
- Fedora
- Debian
- X.org
- VLC

Download Git

The latest stable Git release is

v1.7.1

release notes (2010-04-24)

TAR tar.bz2 (sign)

TAR tar.gz (sign)

Other Download Options
Source and History

Git Quick Start

Cloning and Creating a Patch

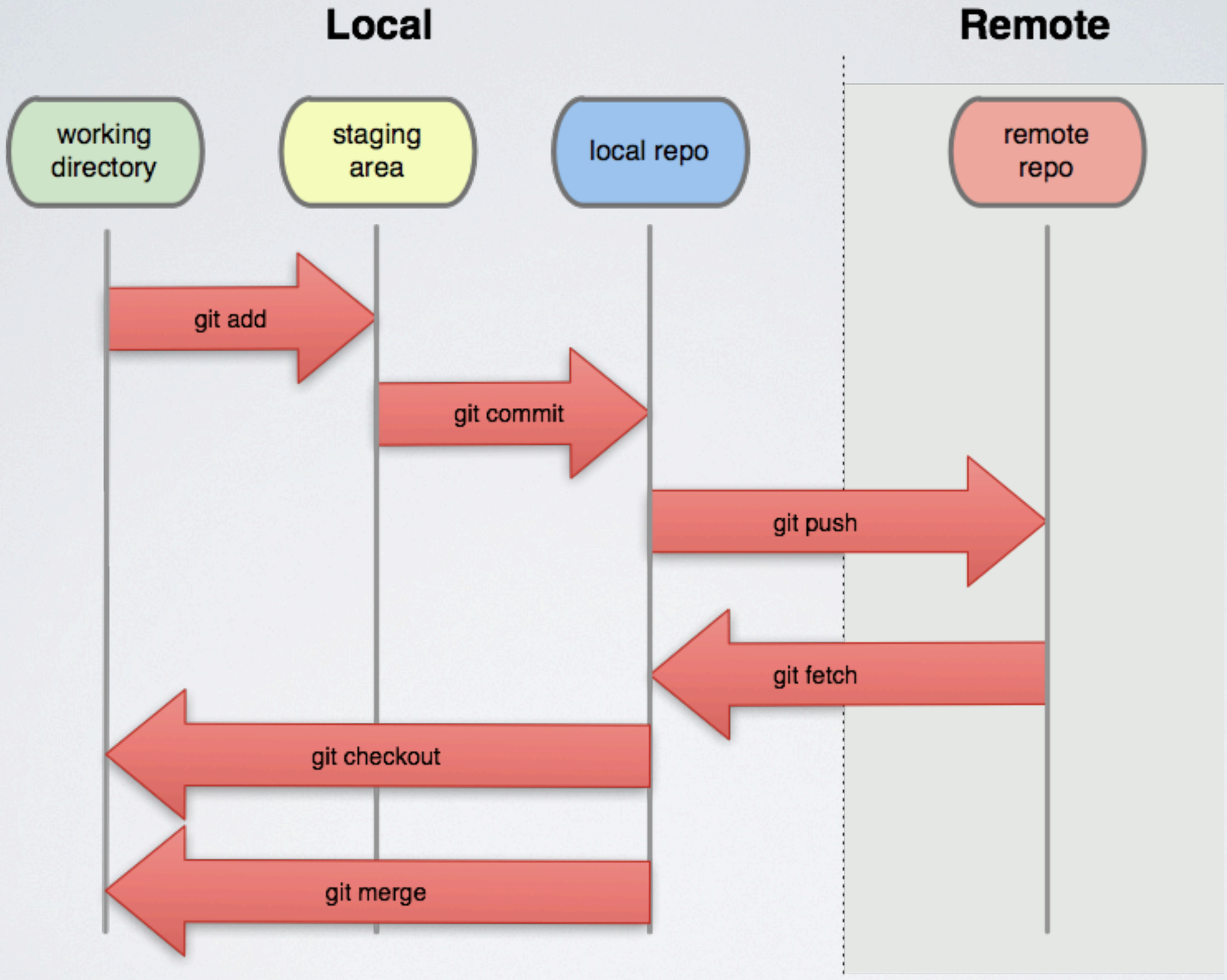
```
$ git clone git://github.com/git/hello-world.git
$ cd hello-world
$ (edit files)
$ git add (files)
```

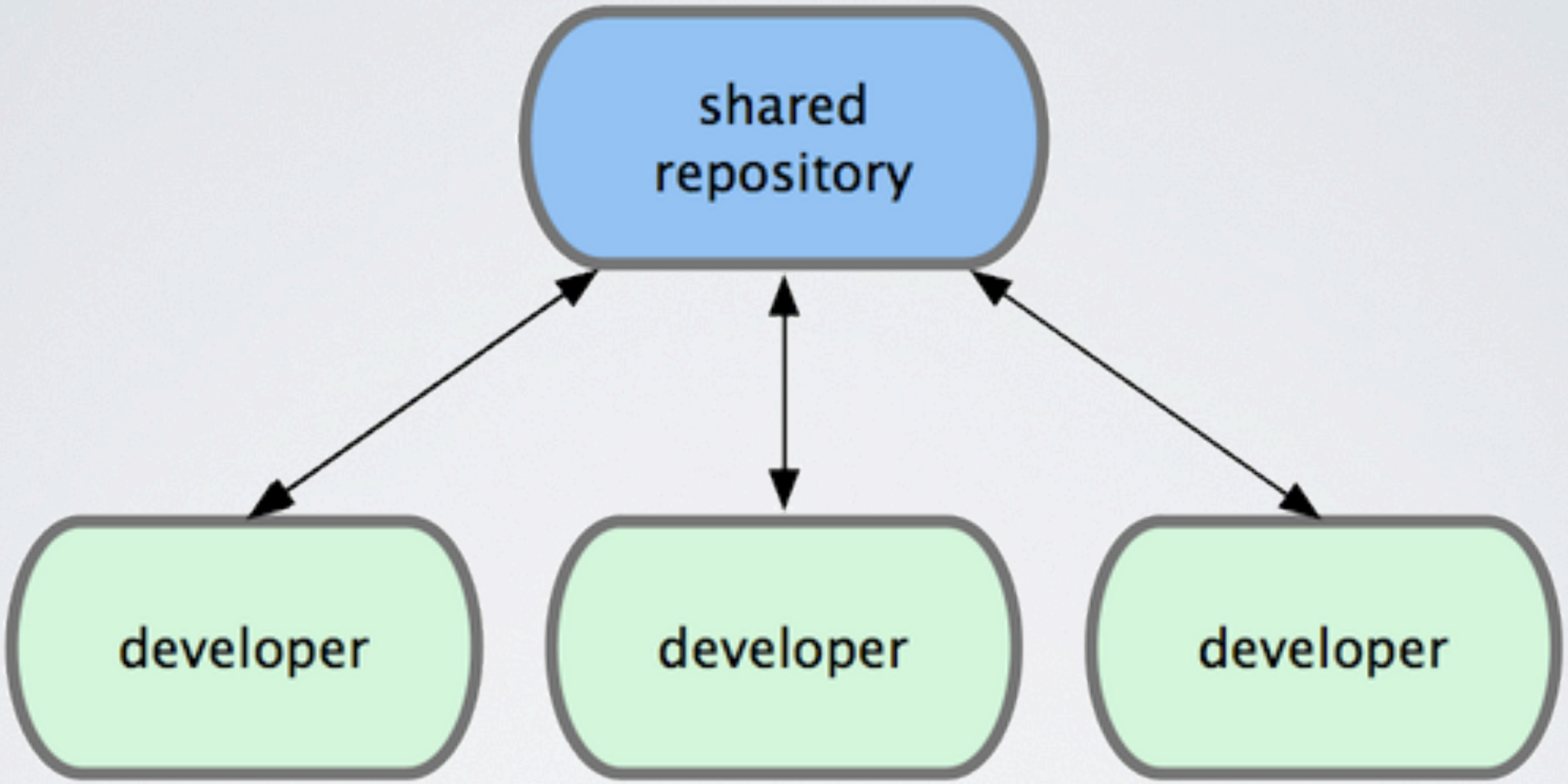
Creating and Commiting

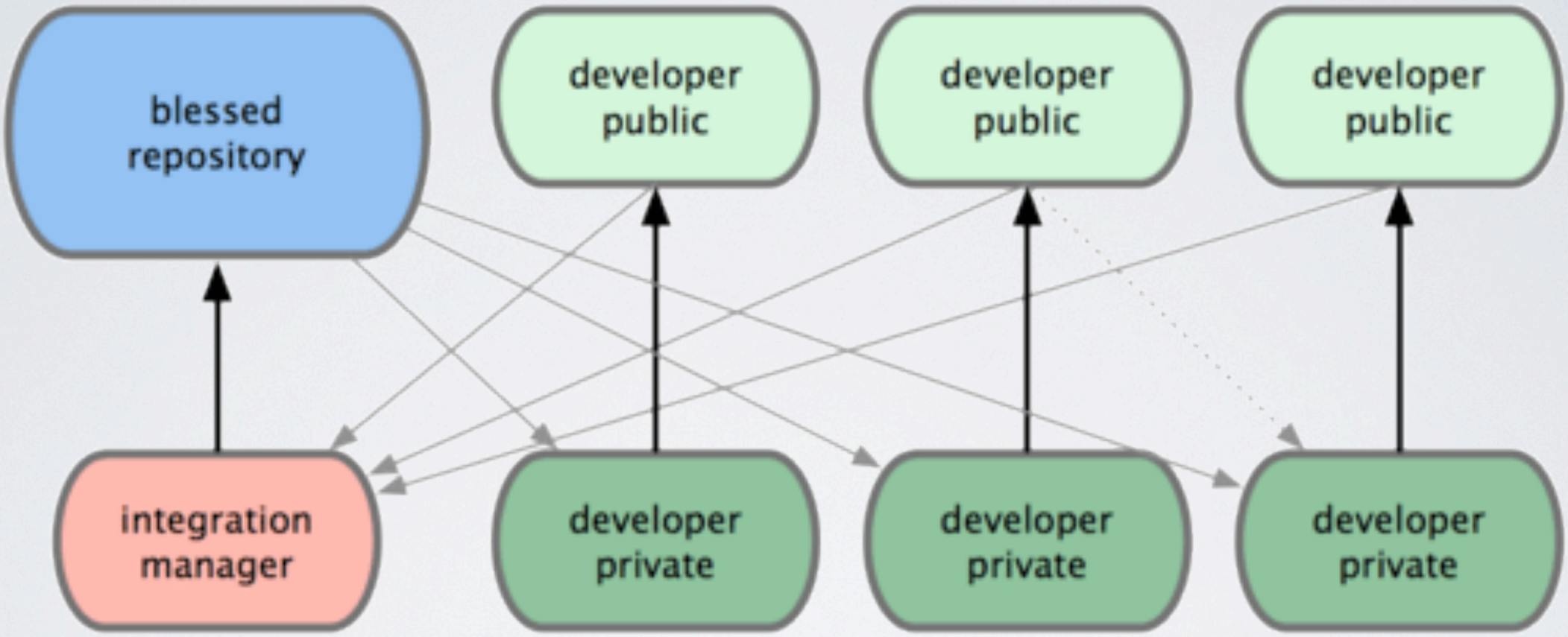
```
$ cd (project-directory)
$ git init
$ (add some files)
$ git add .
```

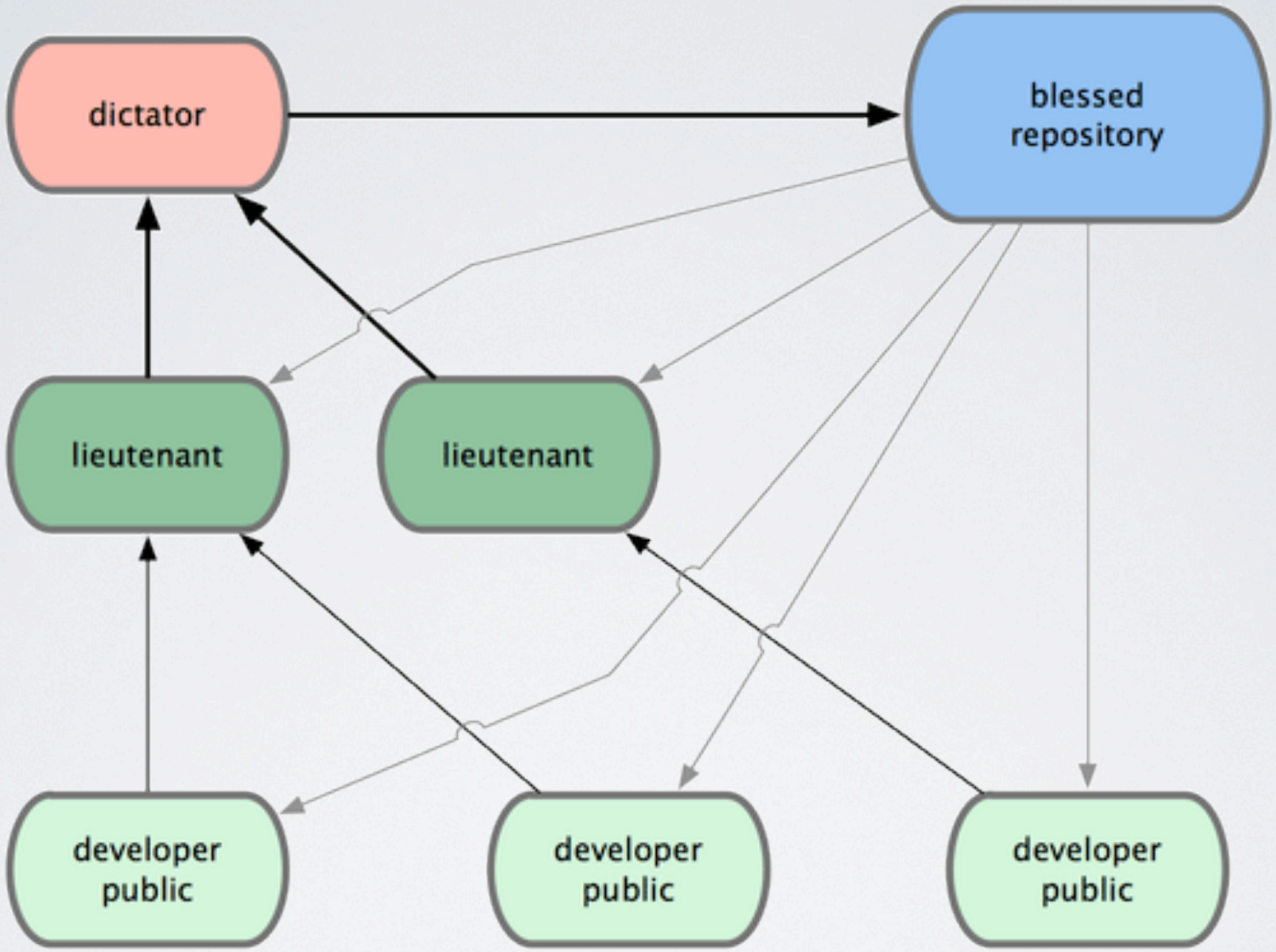
Problem med SVN-liknande system

Distribuerat


Local
Remote
working directory
staging area
local repo
remote repo
git add
git commit
git push
git fetch
git checkout
git merge


shared
repository
developer
developer
developer


blessed repository
developer public
developer public
developer public
integration manager
developer private
developer private
developer private


dictator
blessed repository
lieutenant
lieutenant
developer public
developer public
developer public

Enkel och snabb branch/merge

staging area

offline

online

fiffiga grejer

http://progit.org/book/

Pro Git professional version control

Home Book Blog About Support Us GitHub Twitter

1. Getting Started

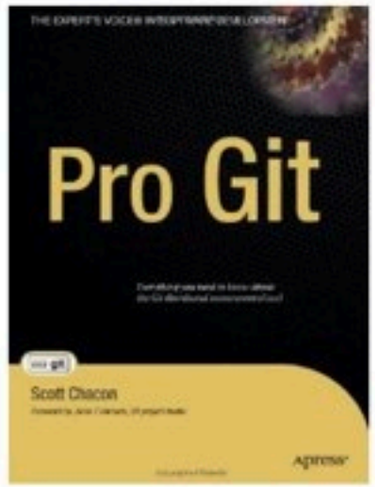
1.1 - About Version Control
1.2 - A Short History of Git
1.3 - Git Basics
1.4 - Installing Git
1.5 - First-Time Git Setup
1.6 - Getting Help
1.7 - Summary

2. Git Basics

2.1 - Getting a Git Repository
2.2 - Recording Changes to the Repository
2.3 - Viewing the Commit History
2.4 - Undoing Things
2.5 - Working with Remotes
2.6 - Tagging
2.7 - Tips and Tricks
2.8 - Summary

3. Git Branching

3.1 - What a Branch Is
3.2 - Basic Branching and Merging
3.3 - Branch Management
3.4 - Branching Workflows
3.5 - Remote Branches



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Information

Hemsida -- http://git-scm.com

Pro Git -- http://progit.org

Git Reference -- http://gitref.org

http://whygitisbetterthanx.com

Hosting

http://github.com

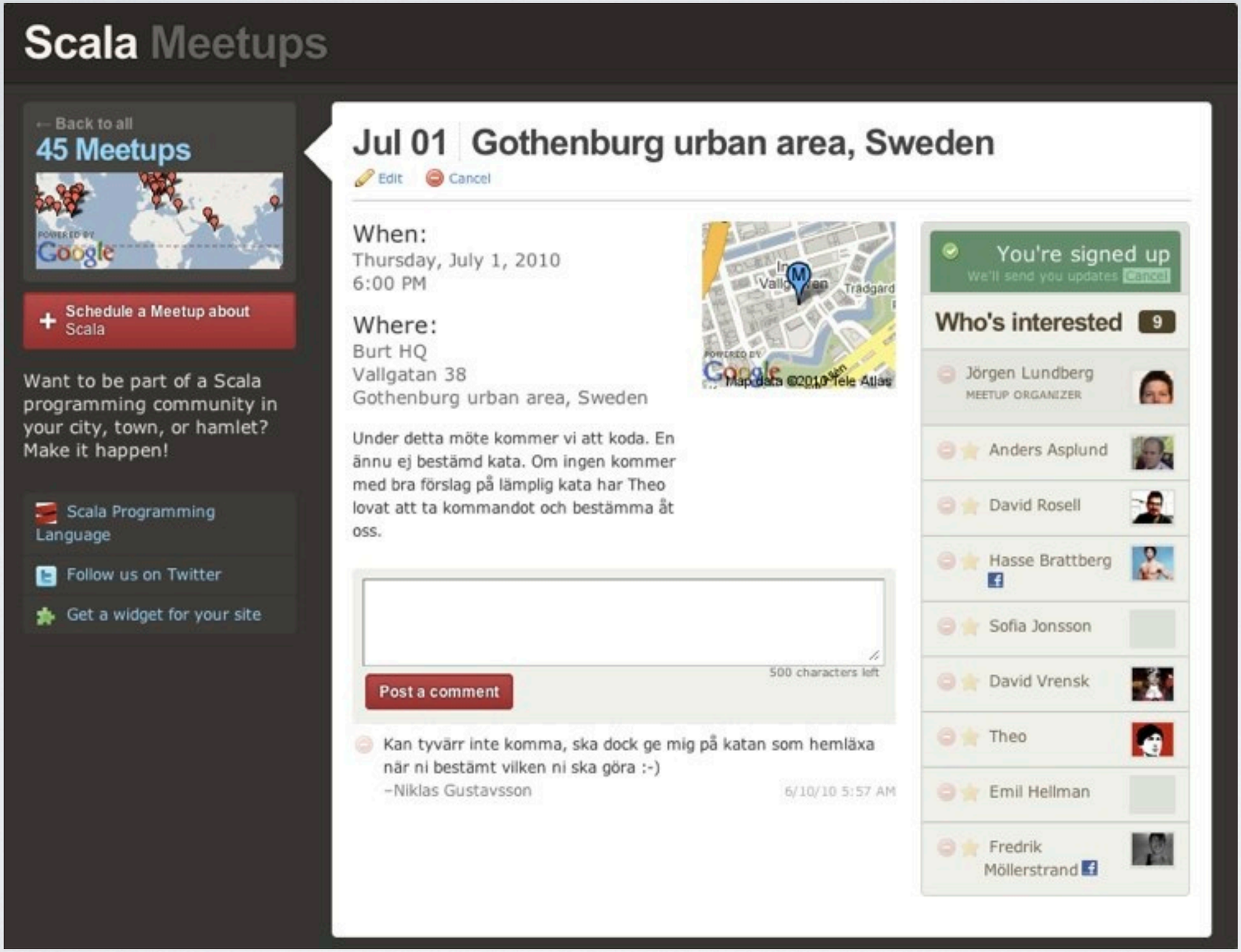
http://gitorious.org/

Klienter

GitX -- http://gitx.frim.nl/

msysgit -- http://code.google.com/p/msysgit/

Tortoise git -- http://code.google.com/p/tortoisegit/

magit (emacs) -- http://philjackson.github.com/magit

http://www.meetup.com/Scala/8016/