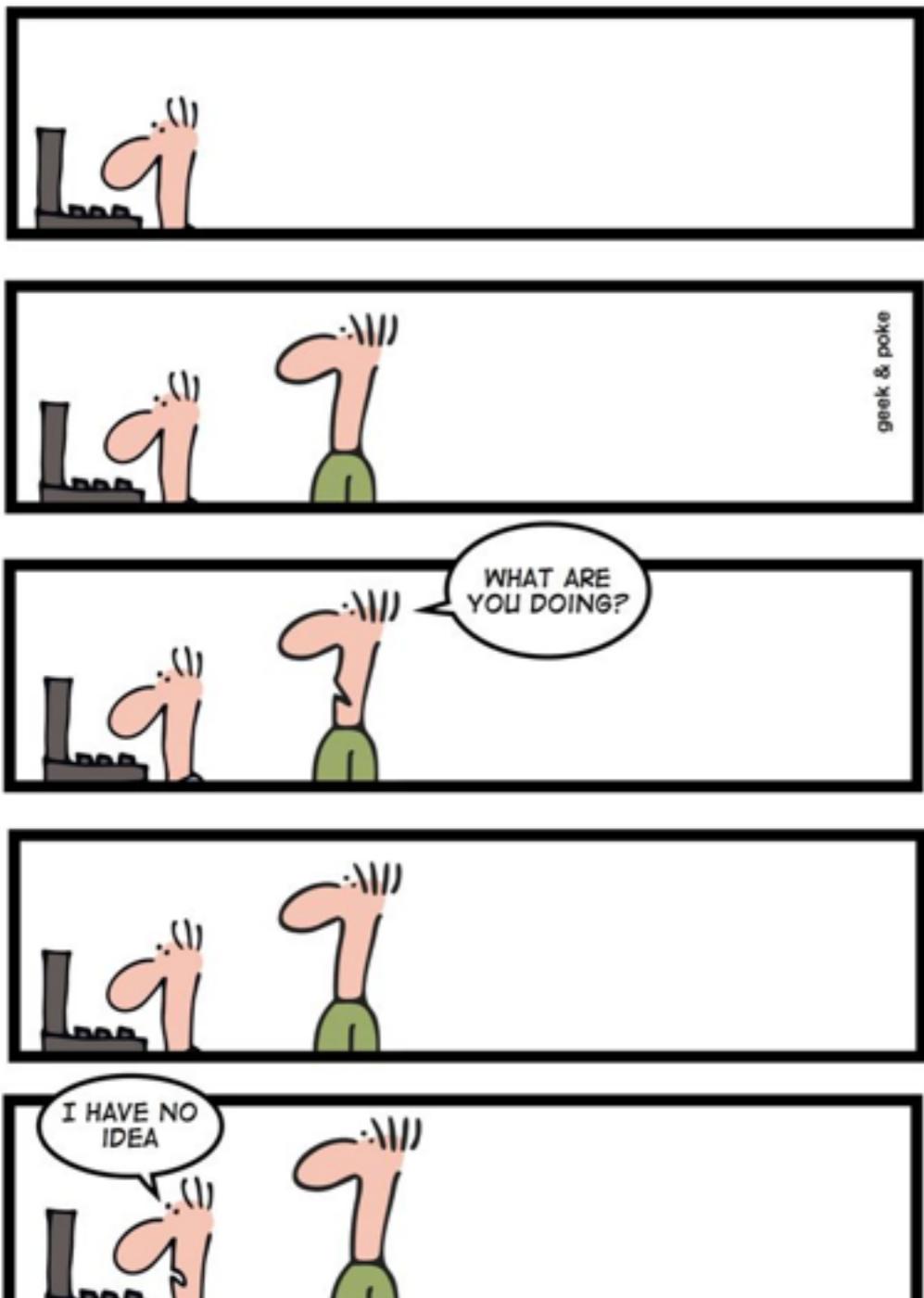


SIMPLY EXPLAINED



CodeLabs 2012

31 July 2012



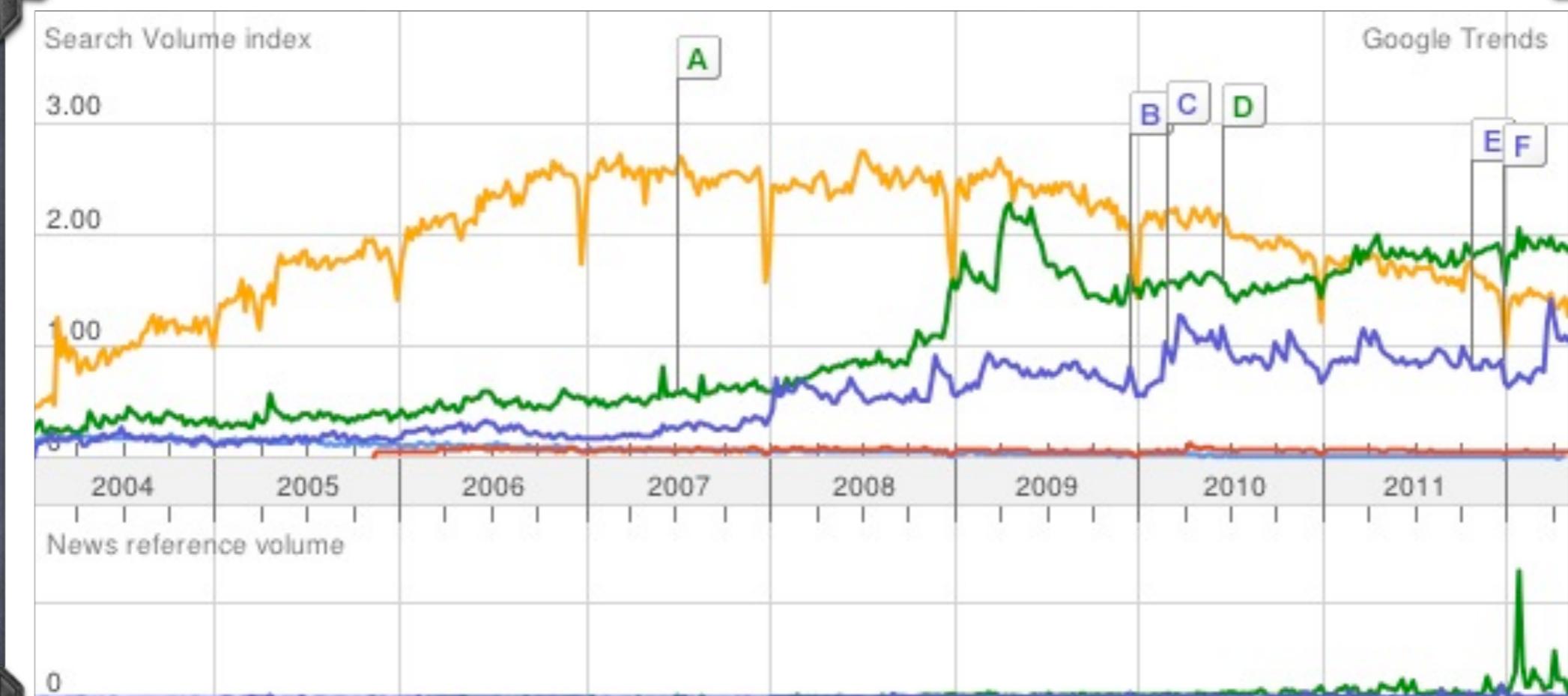
drivensoftware.com

@DrivenSoftware

kevint@drivensoftware.com
@KevinTrehewey



driven2distraction.co.za
@D2DPodcast



VSS TFS SVN Mercurial Git





TRUST

AND WHISPER GIDDY-UP.

AND WHISPER GIDDY-UP.

driven
software
solution



driven
software
solution

Why?

- Local
- Fast
- Distributed
- Smart
- Safe
- Meritocratic



Why Not?

- Learning curve
- Large
- No locking
- Workflows are opt-in



Git Conventions

- git <verb> <parameters>
- git help <verb>



Exercise 1

- Create a new repository
 - Commit a file
 - Modify the file contents
 - Commit the change
 - Review repo history
-

Commands you'll need:

init

status

add -A

commit -m "your commit message"

log

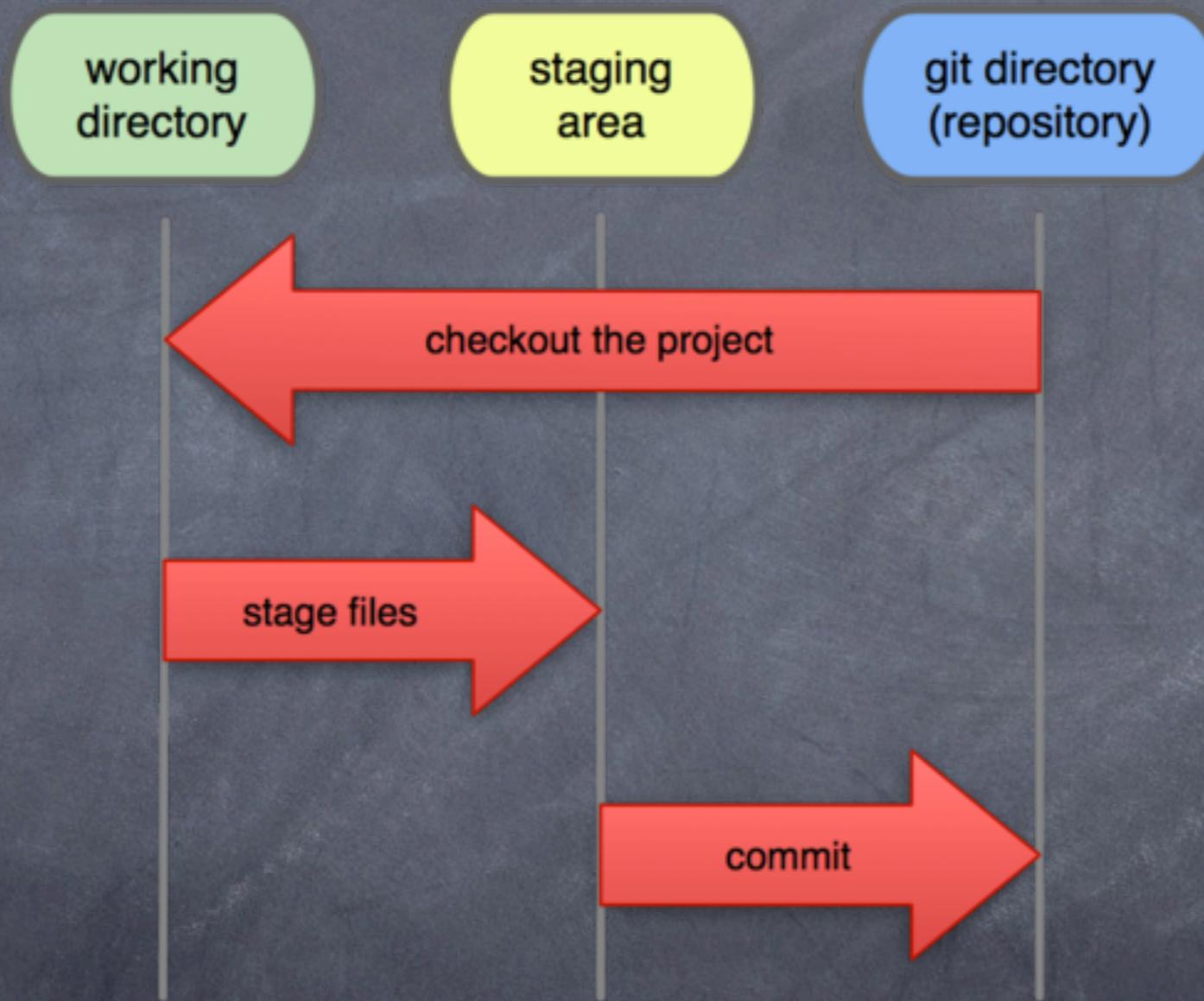


4 Areas

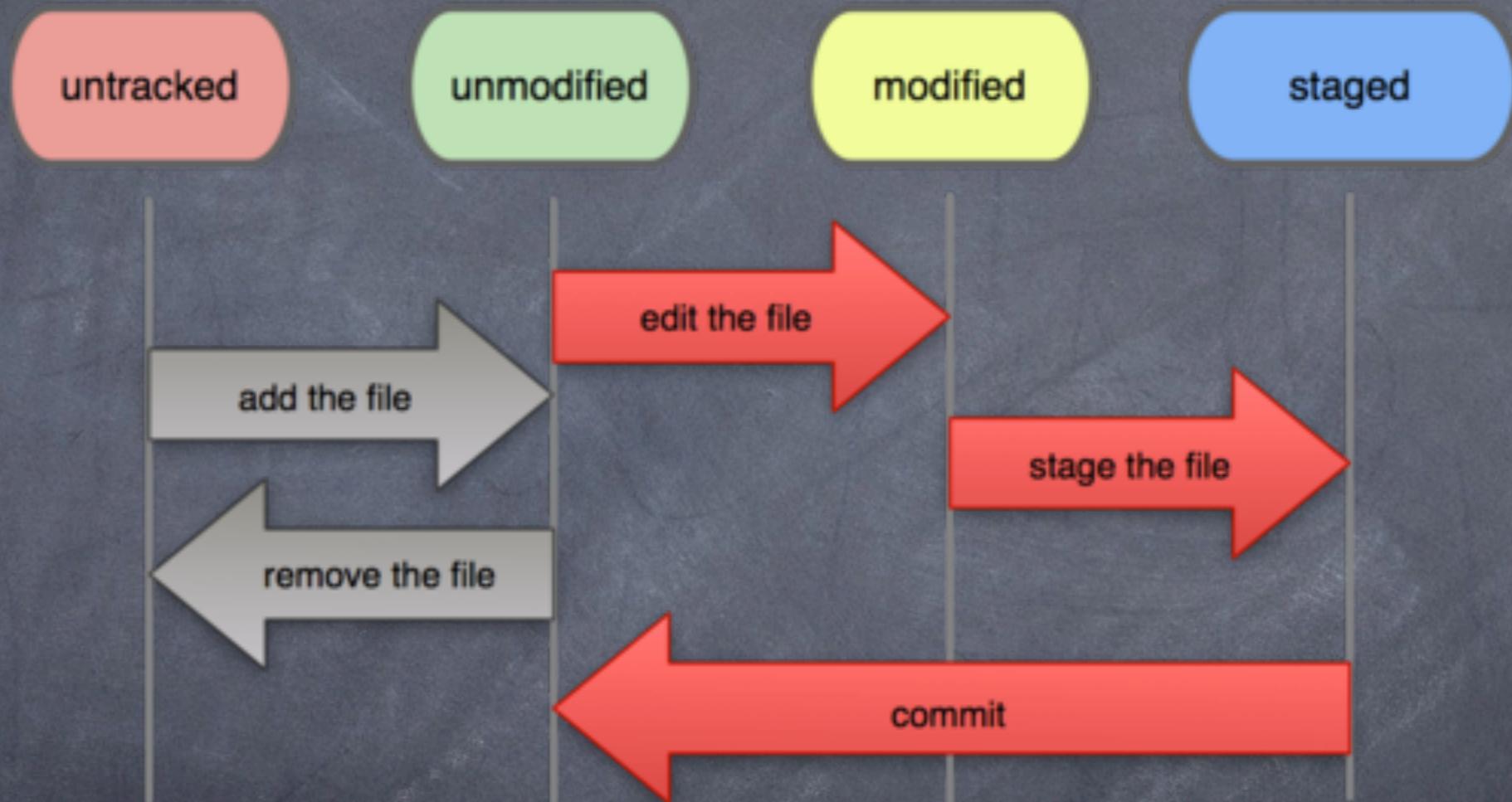
- Working Folder
- Staging Area
- Local Repository
- Remote Repository



Local Areas



File States



Exercise 2

- Create a new branch
 - Add and commit a file
 - View branches' log
 - View master's log
 - Merge branch with master
-

Commands you'll need:

`checkout -b branch_name`

`checkout branch_name`

`branch`

`merge branch_name`

`status`

`add -a`

`commit -m "..."`

`log`

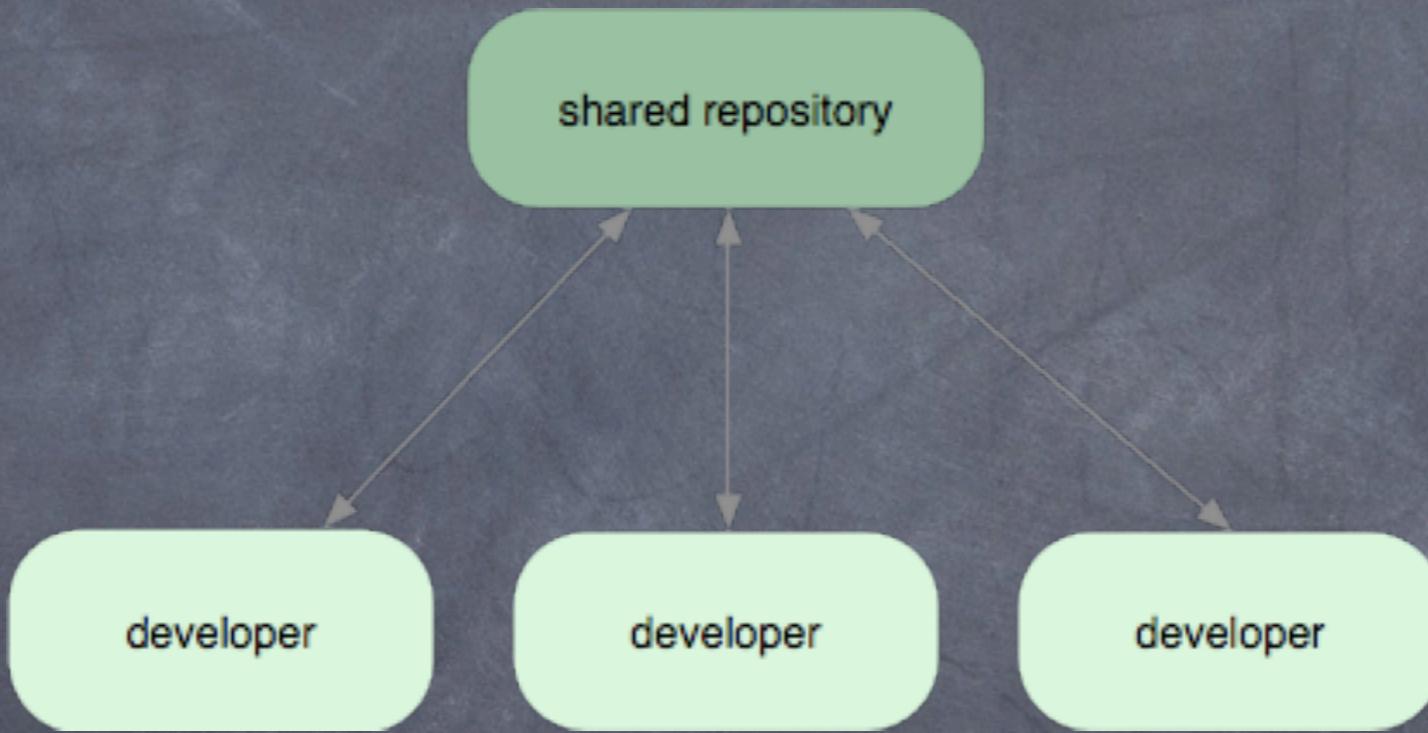


Git Conventions

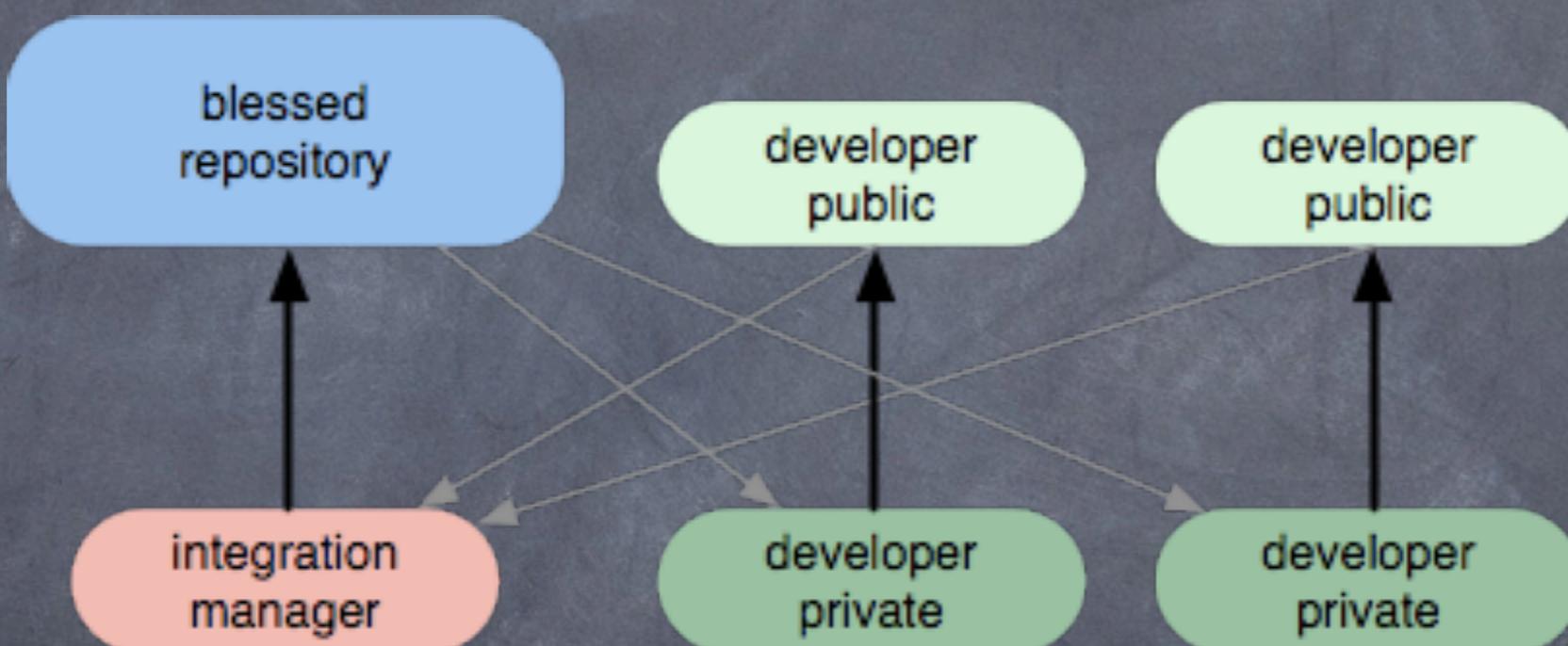
- git <verb> <parameters>
- git help <verb>
- master



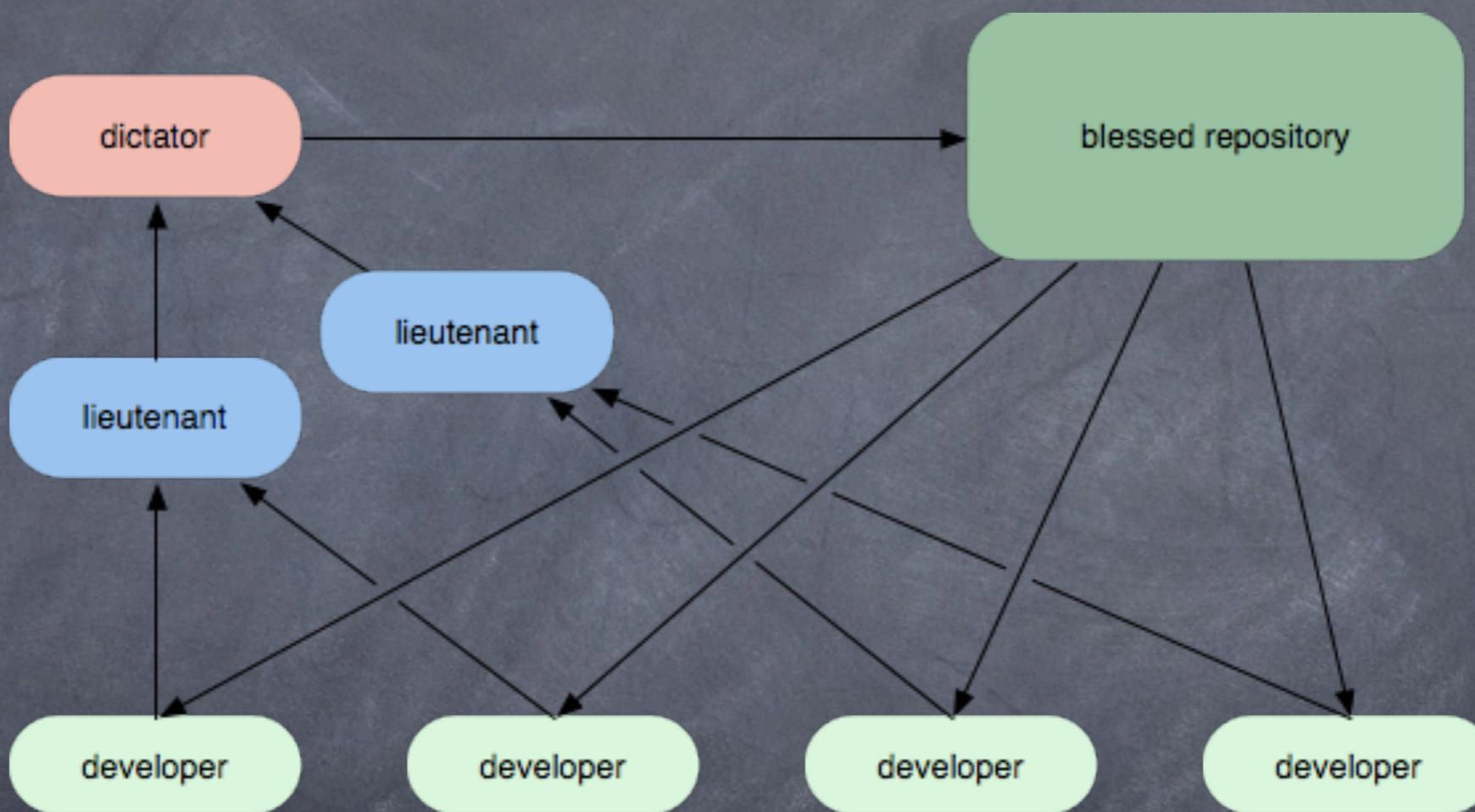
Workflows



Workflows



Workflows



Exercise 3

- Sign up/into Github
 - Go to github.com/drivensoftware/gitcoursedemo
 - Fork it to your account
 - Clone a local copy
 - Make a change, push it back
 - View change on Github
-

New commands you'll need:

clone url

push remote_name branch_name

remote -v

fetch remote_name

branch -r



Git Conventions

- git <verb> <parameters>
- git help <verb>
- master
- origin
- origin/master
- HEAD



Things we haven't covered

- Many useful commands (Rebase, Stash...)
- Merge conflicts
- Undoing
- Configuration (config files, .gitignore, aliases...)
- Treeishes
- Tags
- Hooks
- Bare repositories
- Visual tools
- Switching to git from other VCS
- Good change management flows
-



Some diagrams in this presentation courtesy Scott Chacon



drivensoftware.com

@DrivenSoftware

kevint@drivensoftware.com
@KevinTrehewey



driven2distraction.co.za
@D2DPodcast