version control

for mere and freelance mortals

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HICKTech

About this talk

- As a freelance developer chances are good you use either many, or no, version control systems for your code. If your mental health has been compromised by index.version080912f-b.inc file naming, or you wish there was more flexibility in how (and when) your files are submitted to data central, it's possible that Bazaar is the version control system you've been waiting for.

- In this session you will be exposed to one freelancer's adventures of getting all projects arranged into a manageable version control system. Specific topics will include:

  - an overview of the main competitors in the open source world of version control (the good, the better and the CVS);

  - a peek into a single human's work environment to see how it ties together multiple projects, multiple computers, and deals with travel-related network outages; and finally,

  - a tour of the basics you will need to set up your own system with Bazaar.

Why are we here?

blame

SRSLY

Because this sucks:

```
$ cp template.php template.php.old
$ vim template.php
$ cp template.php template.php.c.20081025c
```

And this is awesome:

```
$ bzr blame legalnotice.xml
156.1.13 camille | <?xml version="1.0" encoding="utf-8"?>
156.1.19 camille | <!DOCTYPE legalnotice PUBLIC "-//OASIS//DTD DocBook XML
                      V4.3//EN" "http://docbook.org/xml/4.3/docbookx.dtd">
156.1.5  spindle | <legalnotice>
156.1.13 camille |   <para>Written by and attributed to Canonical Ltd.
                     and the Ubuntu
161.1.2  emmajan |   Training community 2008-2009.</para>
156.1.13 camille |   <para>This license is bound by the Creative Commons: CC by
```

Bazaar
&
Launchpad

open source
July 21, 2009

work flow

freelance

collaboration

Drupal – Freelance Contracts

❶ create project

❷ record changes

❸ browse history

❹ package release

Computer

freelance

Local testing server → backups

Local testing server → Live server

files

```
           ┌─── graphics
           │
client ────┼─── themes
           │
           └─── documentation
```

1

Install Bazaar

http://bazaar-vcs.org/Download
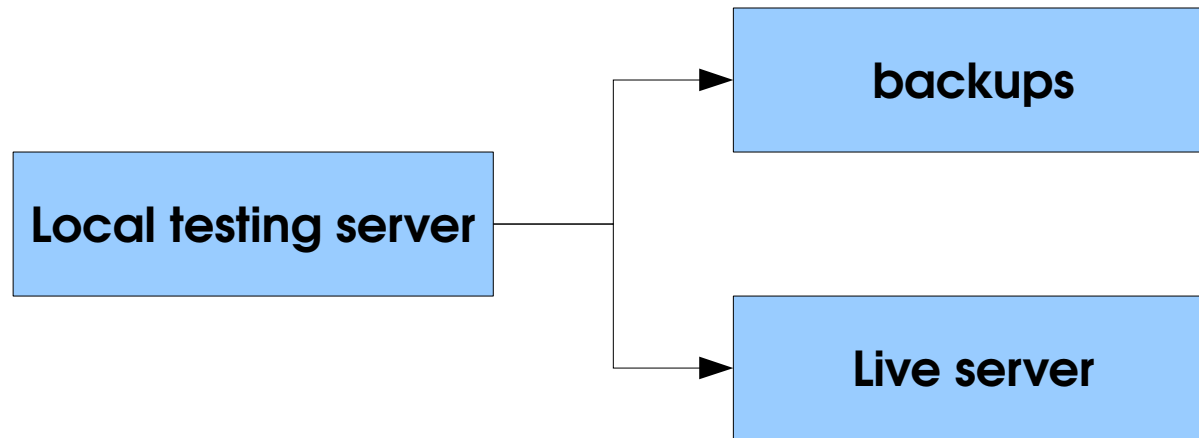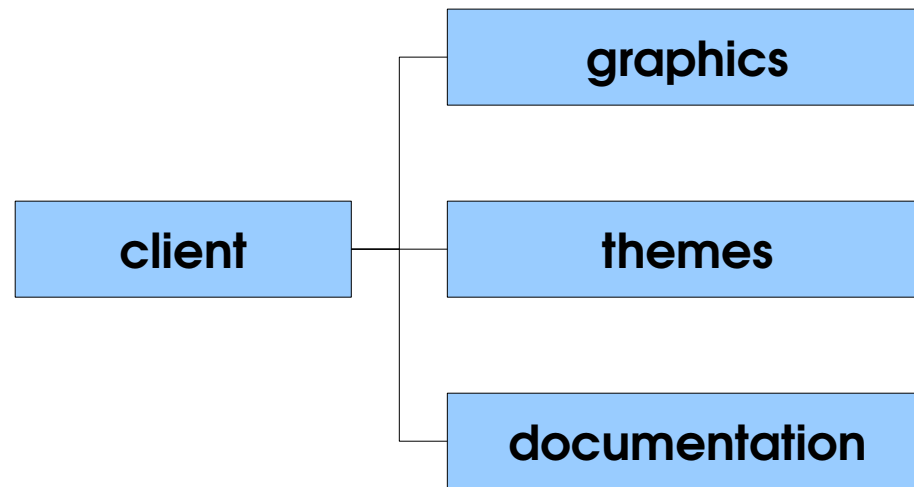
you only need this on machines that will be editing code

2

Start the magic trick
$ bzr init

this converts the directory to one that can be version-controlled

3

Put the rabbit into the hat

```
$ bzr add
```

Add your files to the version control system.

4

Wave the magic wand
$ bzr commit
Commit the "changes" to the repository.

Do some work.
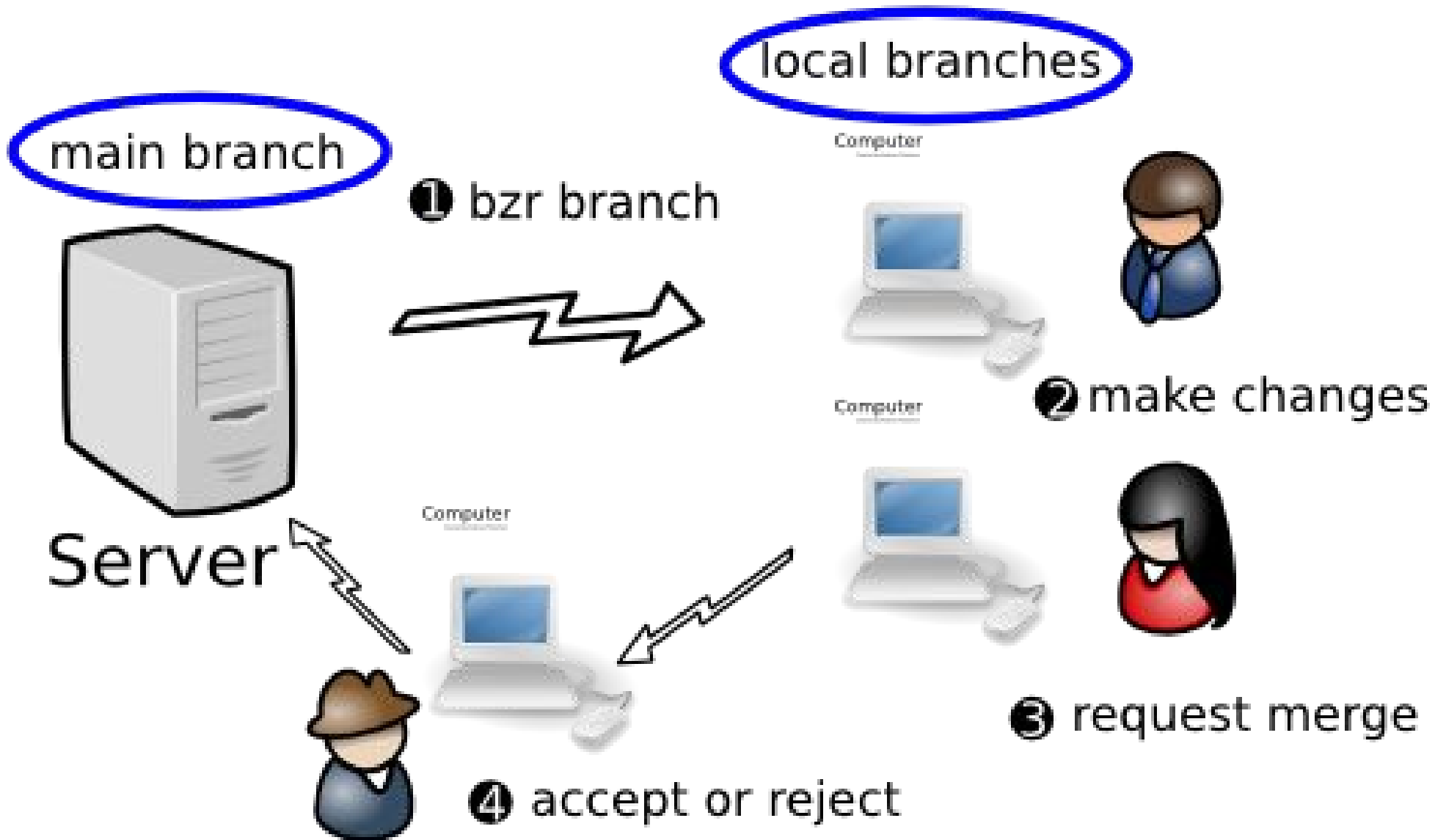commit again

5

The rabbit appears on the server

$ bzr upload
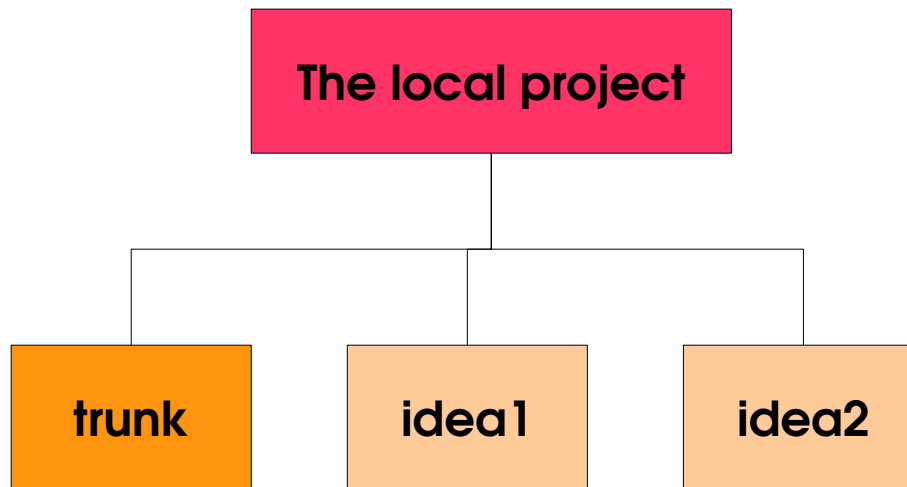
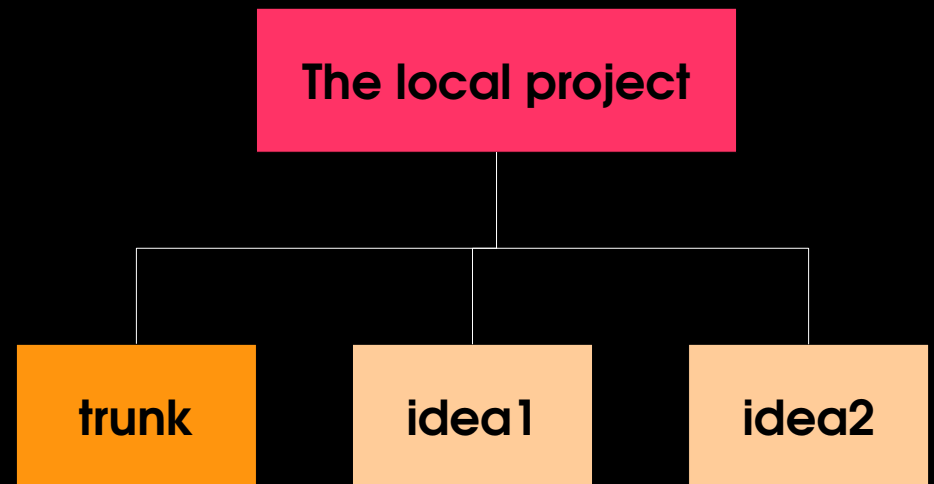Upload the changes via SFTP to the Web server.

More information at:
http://bazaar-vcs.org/BazaarUploadForWebDev

Ubuntu Documentation Team

main branch

local branches

❶ bzr branch

Server

❷ make changes

❸ request merge

❹ accept or reject

Team Work

1

Working efficiently

```
$ bzr init-repo project-name
```

The local project

trunk   idea1   idea2

2

Download the files

`$ bzr branch lp:project-name trunk`

From launchpad.

The local project
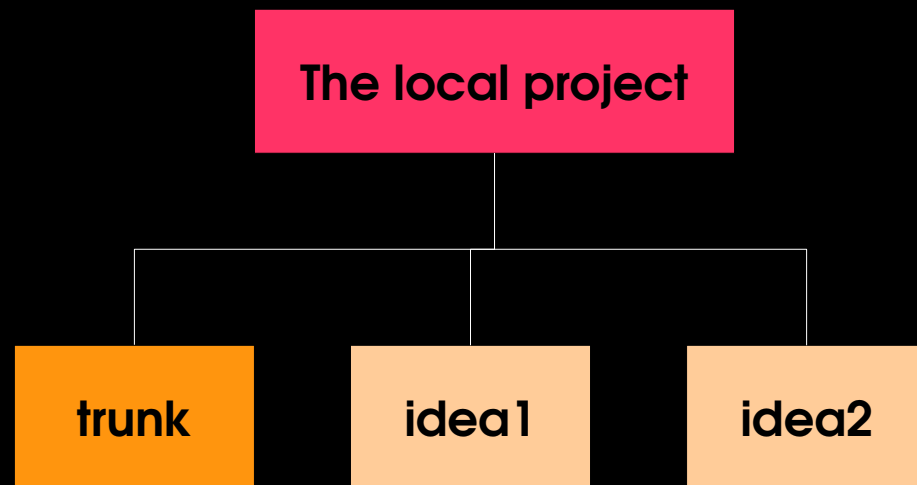
trunk   idea1   idea2

3

Copy the files to a working tree

```
$ bzr branch trunk idea1
$ bzr branch trunk idea2
```

The local project

trunk   idea1   idea2
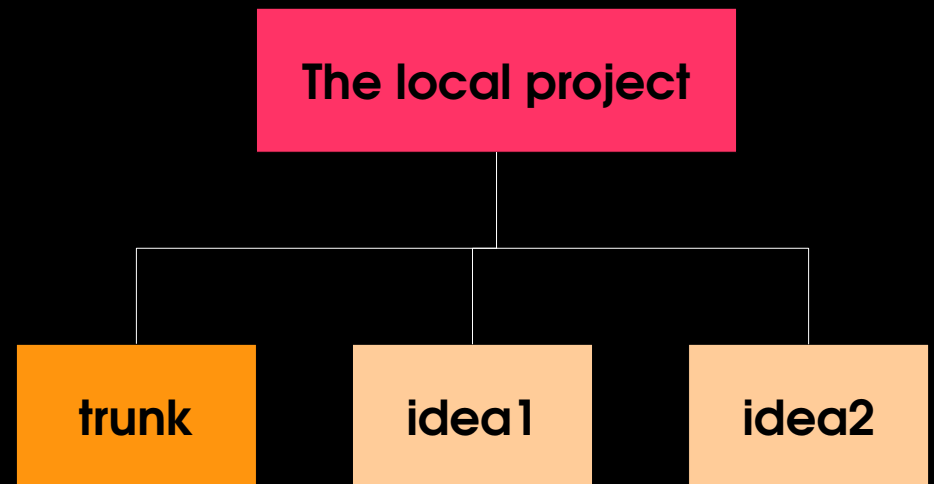
Do some work.

4

Wave the magic wand, again
$ bzr commit

Commit the "changes" to the working tree—same as before.
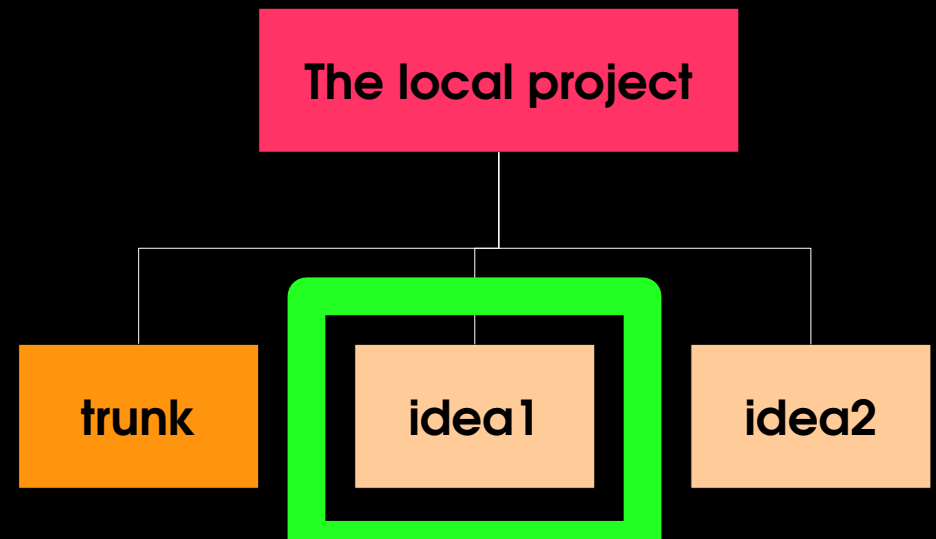
The local project

trunk   idea1   idea2
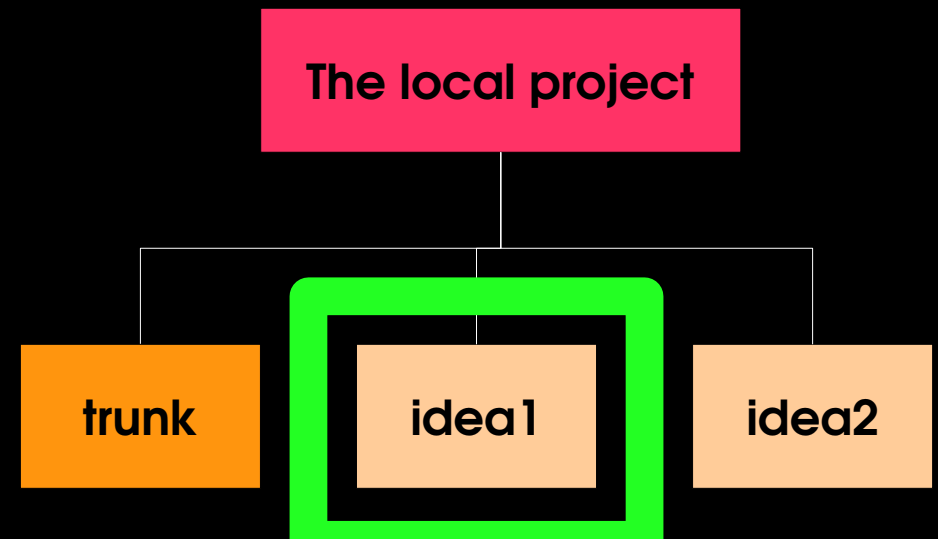
5

Work with other people

$ bzr push

**Pushes your changes to an off-site repository.
You will need to include a location the first time you push.**

$ bzr push lp:~USER_NAME/your-project-name/my-branchname

The local project

trunk · idea1 · idea2

6

Incorporate changes from others:
```
$ bzr merge
$ bzr pull
```

Quick reference
`$ bzr --help commands`

Talk to helpful people
`/join #bzr` (on irc.freenode.net)

But what about you?

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