

# version control

for mere and freelance mortals

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# 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.

**By the end you will be equipped  
to use version control  
as part of your daily routine.**

**SRSLY**

**Why this talk?**

# Because this sucks:

```
$ cp template.php template.php.old
```

```
$ vim template.php
```

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

# And this is awesome:

```
$ bzo 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
```

# A brief history of version control...



# Ancient:

SCCS (1972)

# Old School:

RCS (ci / co)

# Centralized:

CVS / Subversion

# Decentralized:

Git / Mercurial / Bazaar / SVK

Git is my hero

Selena Deckelmann





An open source conference in Portland, Oregon • June 17-19, 2009

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## When is Open Source Bridge?

February 9, 2009 – 12:50 pm

Everything is beginning to fall into place. We're [mobilizing our incredible volunteers](#). We've begun accepting [proposals for talks](#). And now, we're pleased to announce that we have finalized the dates for Open Source Bridge. (Which means those folks who submit proposals will actually have somewhere to talk.)

**Save the date.** The conference will be held June 17-19, 2009, at the [Oregon Convention Center in Portland, Oregon](#).

If you're coming from out of town, rest assured that we're working with Portland hotels to find the best possible rates for your stay. We'll let you know as soon as those arrangements are finalized.

If you're from in or around Portland, we're working on some special things for you, as well.

We're looking forward to seeing you here on June 17.



*Oregon Convention Center*

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- [Call for Proposals: We welcome your ideas](#)





Selena Deckelmann

**A real history of VC is  
available from:**

**[http://en.wikipedia.org/wiki/Version\\_control](http://en.wikipedia.org/wiki/Version_control)**

# Bazaar & Launchpad



launchpad



# Open sourced

Launchpad is a unique collaboration and Bazaar code hosting platform for software projects.

[Read more...](#)

# July 2009

## Featured projects

- Anewt
- Awn
- Bauble
- Bazaar
- GNOME Do
- Drizzle
- Extreme Tux Racer
- Exaile
- GASP
- Get-You
- LottanZB
- Me TV
- MySQL
- OpenObject
- PyRoom
- SchoolTool
- Silva CMS
- Terminator
- Ubuntu
- Zope.org

## Upstream: Ubuntu translations come to circle

Easily integrate the work done by distribution translators back into your own translation effort.

## Translations style guides

Share your translation team's policies, best practices and guidelines directly from translation pages.

## New bug plugin API

Create your own plugin for direct communication between Launchpad and your favourite bug tracker.

## Help test Launchpad's API!

Join the beta of our web services API and Python library.

Updated 2009-01-28. [Read our blog!](#)

- Create a new project
- Create a new team

- Browse projects
- Browse people & teams

- Take the tour
- Read the guide



# Workflow

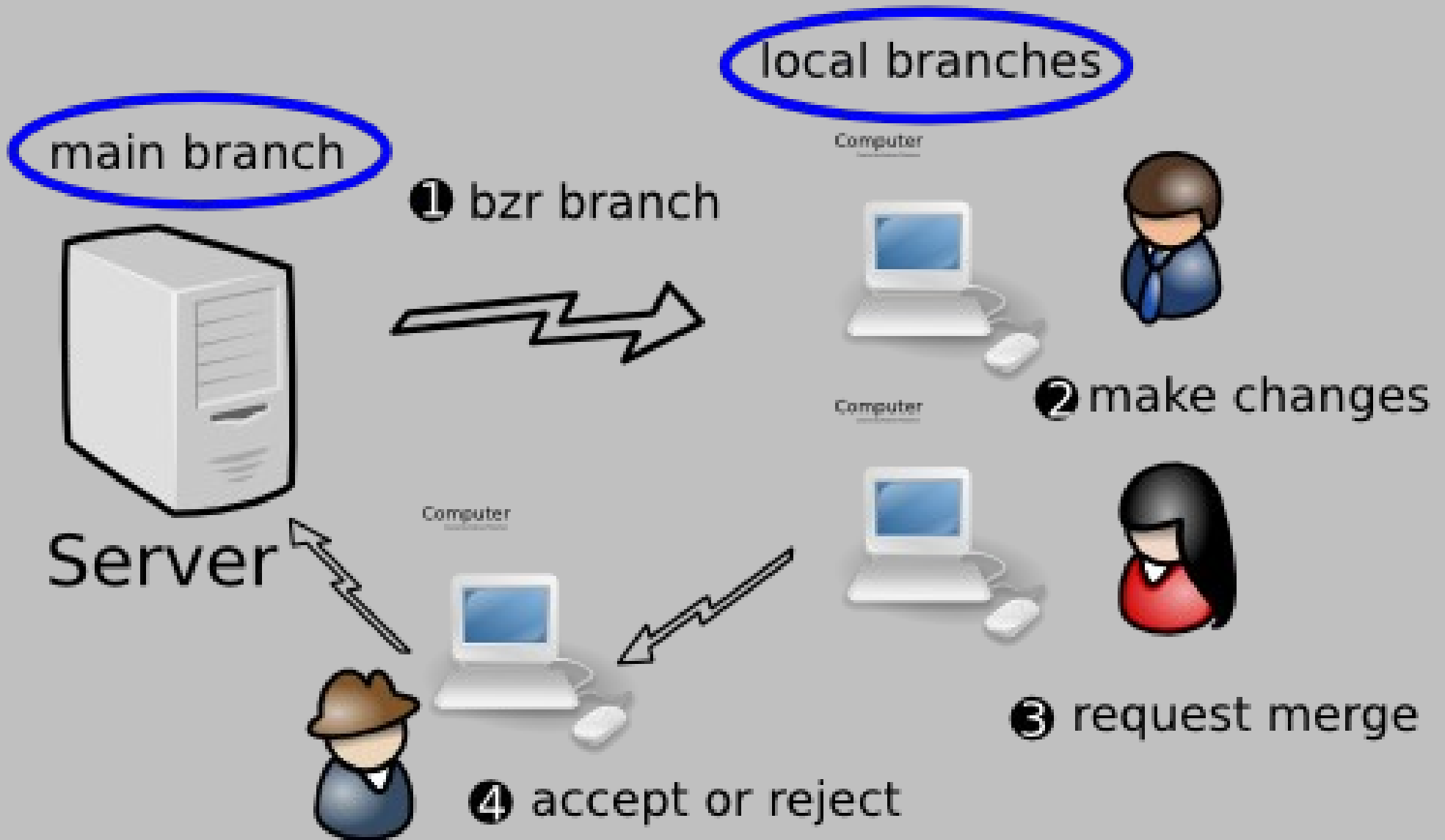
# Drupal – Freelance Contracts

- ① create project
- ② record changes
- ③ browse history
- ④ package release

Computer  
© 2007 Apple Computer, Inc. All rights reserved.



# Ubuntu Documentation Team



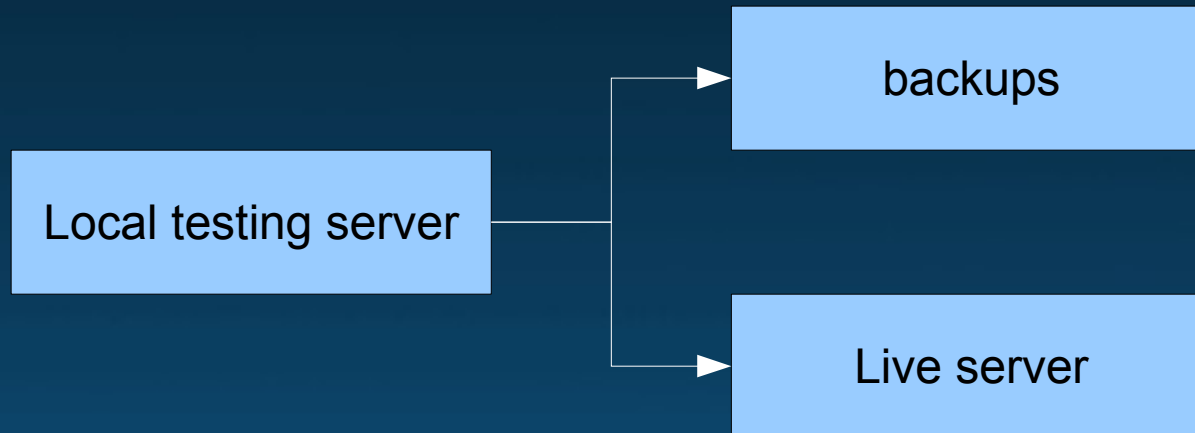
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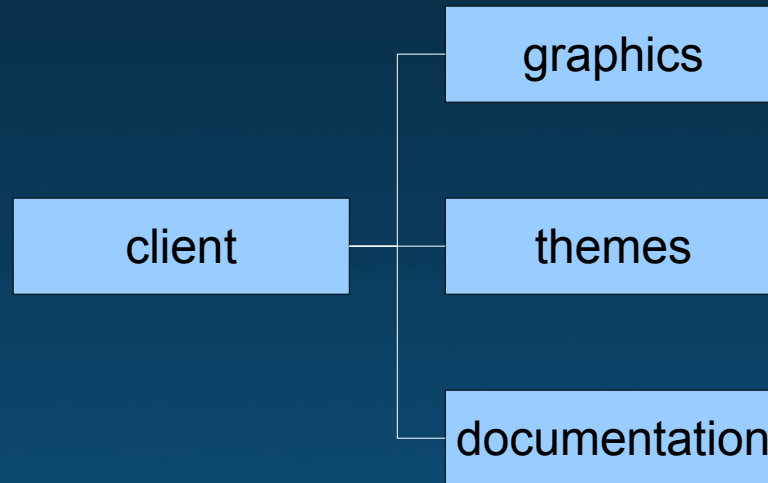
Computer  
© 2007 by Andrew Hines



# my setup



# my files



1

## Install Bazaar

<http://bazaar-vcs.org/Download>

you only need this on machines that will be editing code

2

Start the magic trick

```
$ bzip init
```

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



3

Put the rabbit into the hat

```
$ bzip add
```

Add your files to the version control system.

4

Wave the magic wand

`$ bazaar commit`

Commit the “changes” to the repository.

**Do some work.**

commit again

5

The rabbit appears on the server

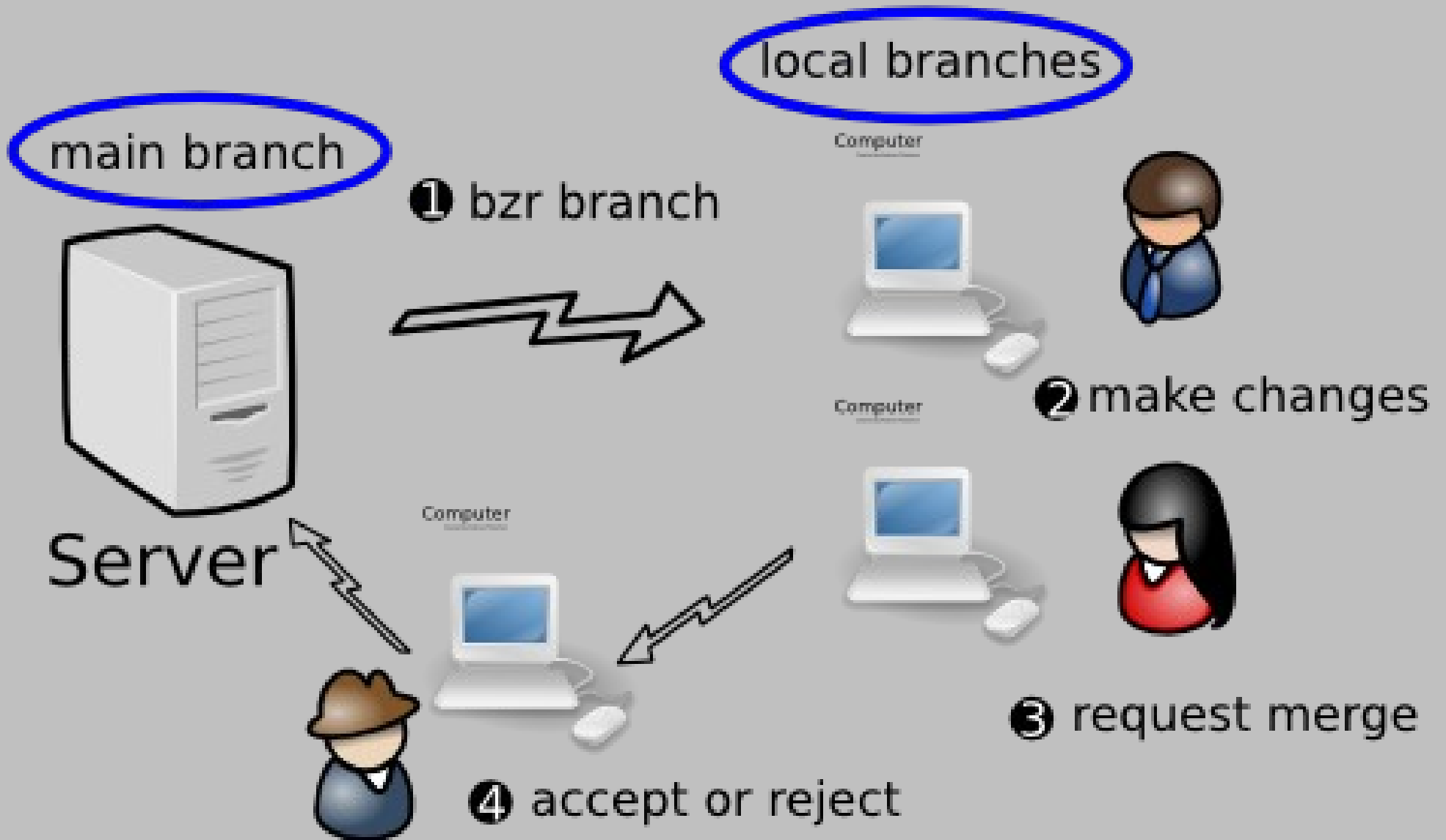
`$ bzip upload`

Upload the changes via SFTP to the Web server.

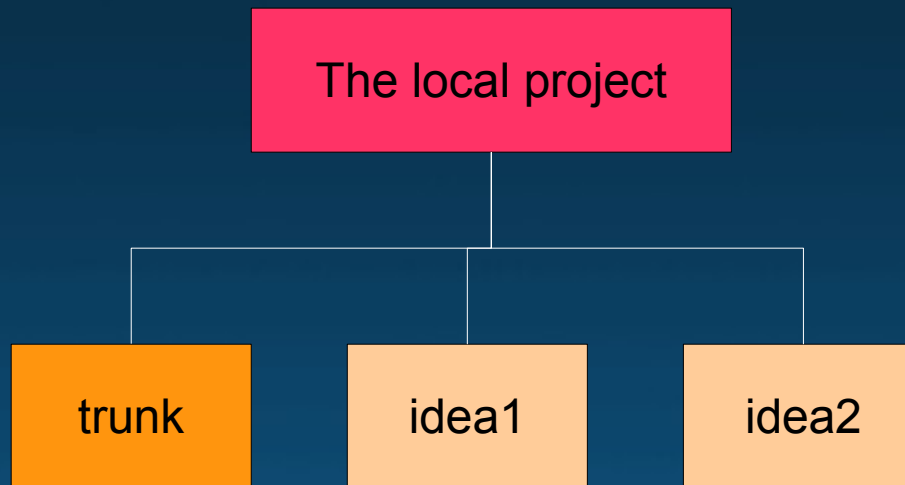
**More information at:**

**<http://bazaar-vcs.org/BazaarUploadForWebDev>**

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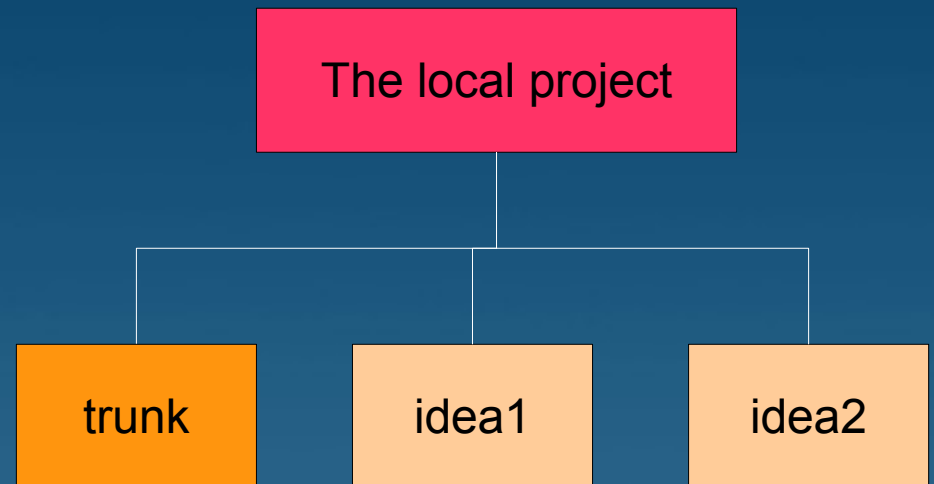
# Working efficiently



1

# Working efficiently

```
$ bzz init-repo project-name
```



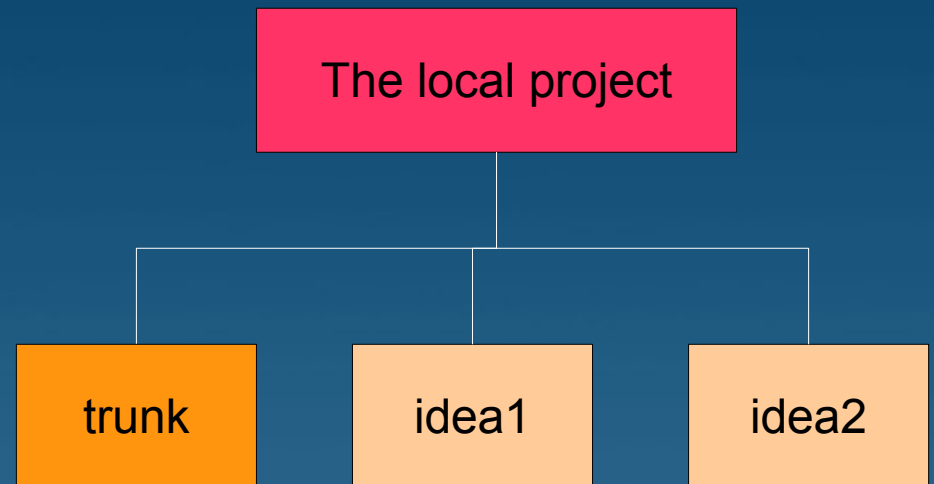


2

## Download the files

```
$ bzip branch lp:project-name trunk
```

From launchpad.

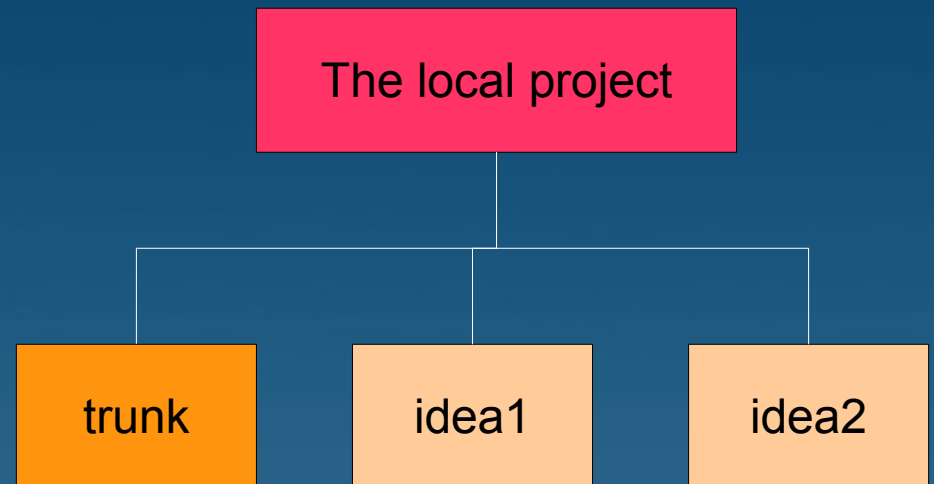


3

Copy the files to a working tree

```
$ bzip branch trunk idea1
```

```
$ bzip branch trunk idea2
```

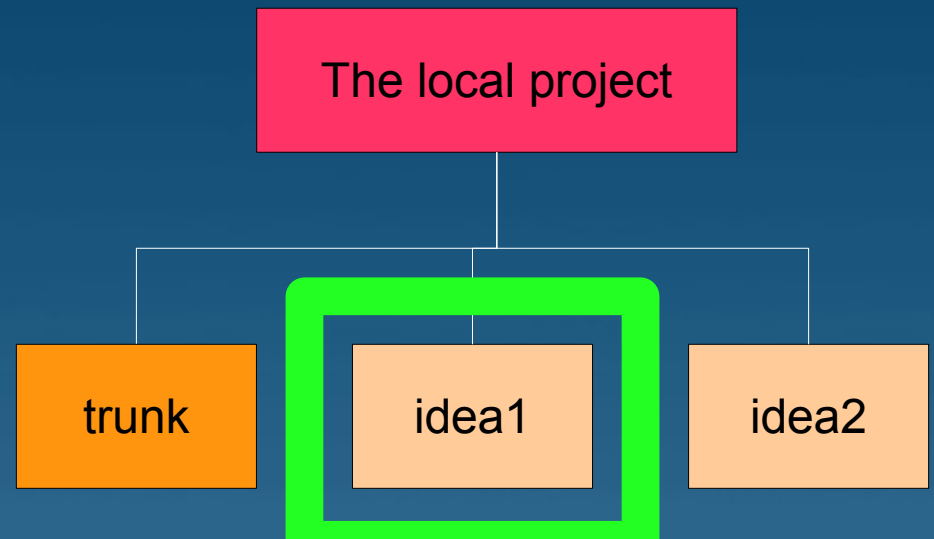


**Do some work.**

4

Wave the magic wand, again  
`$ bzip commit`

Commit the “changes” to the working tree—same as before.



**Collaboration is like a bad  
1980s dance trax...**



TOP · RAP  
HIT USA



**SALT-N-PEPA**

**THIS SIDE**

**PUSH IT**

(FULL LENGTH REMIX)

**HIT 'EM  
WITH THIS**

**ANTOINETTE**

**THAT SIDE**

100 B.P.M.

**I AM  
DOWN**

Photo source: wikipedia

# 5

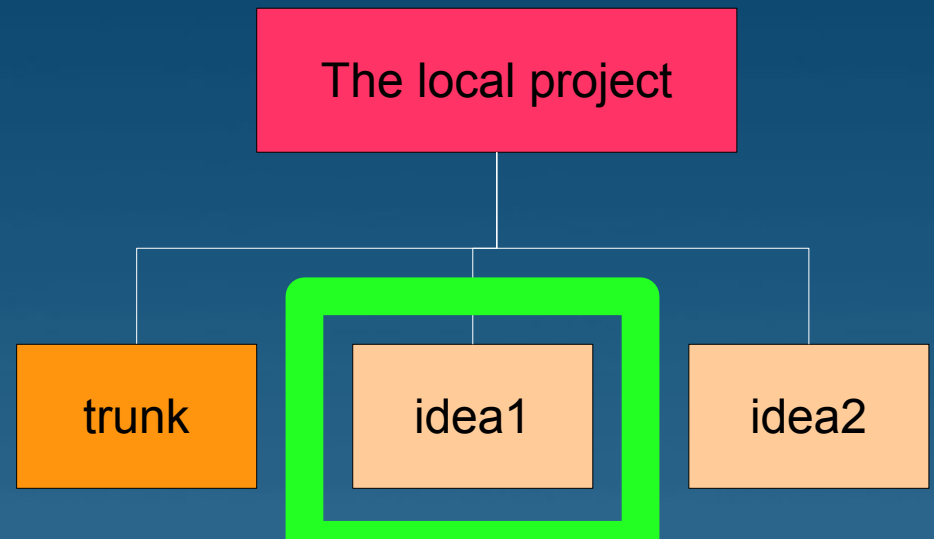
## Work with other people

### \$ bzip push

Pushes your changes to an off-site repository.

You will need to include a location the first time you push.

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



6

Incorporate changes from others:

```
$ bzr merge
```

```
$ bzr pull
```



## Quick reference

```
$ bzd --help commands
```

Talk to helpful people

```
/join #bzd (on irc.freenode.net)
```



**But what  
about you?**

[emma@hicktech.com](mailto:emma@hicktech.com)  
[www.emmajane.net](http://www.emmajane.net)