



CANONICAL

# Launchpad

The Ubuntu collaboration platform

Presentation by  
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# Outline

- What is Launchpad?
- Technology Stack
- Fact Sheet
- Ubuntu-related Features
- Recent/Future Developments
- Questions



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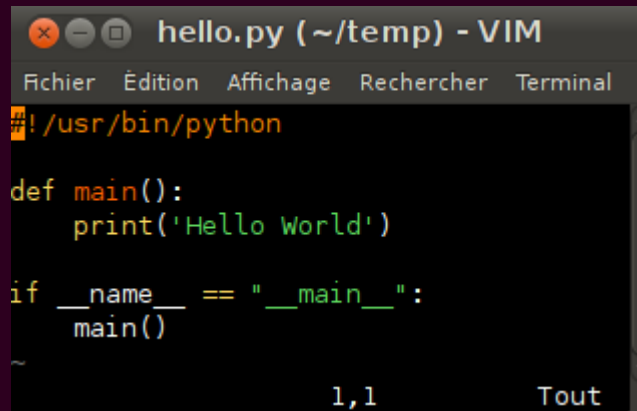


Launchpad is a unique collaboration and hosting platform for software projects.

<https://launchpad.net/+tour>



# A simple program



```
hello.py (~/temp) - VIM
Fichier  Édition  Affichage  Rechercher  Terminal  A
#!/usr/bin/python

def main():
    print('Hello World')

if __name__ == "__main__":
    main()

~
1,1  Tout
```



# A “simple” program

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Bugs



# A “simple” program

Code

Translations

Bugs

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Bugs

Communication



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Bugs

Specs

Communication



# A “simple” program

Code

Translations

Packaging

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Bugs

Specs

Communication



**Translations**  
Import from files  
Import from branches  
Edit from Web UI

**Code**  
Code hosting  
Code imports  
Code review

**Packaging**  
Build from source  
Recipe builds



# launchpad

**Bugs**  
Bug tracking  
Syncing with external  
trackers

**Community Mgmt**  
Mailing lists  
Questions

**Specs**  
Blueprints



# Who is Launchpad for?

- Software developers
- Expert users of software
- End users of software
- Translators
- Managers

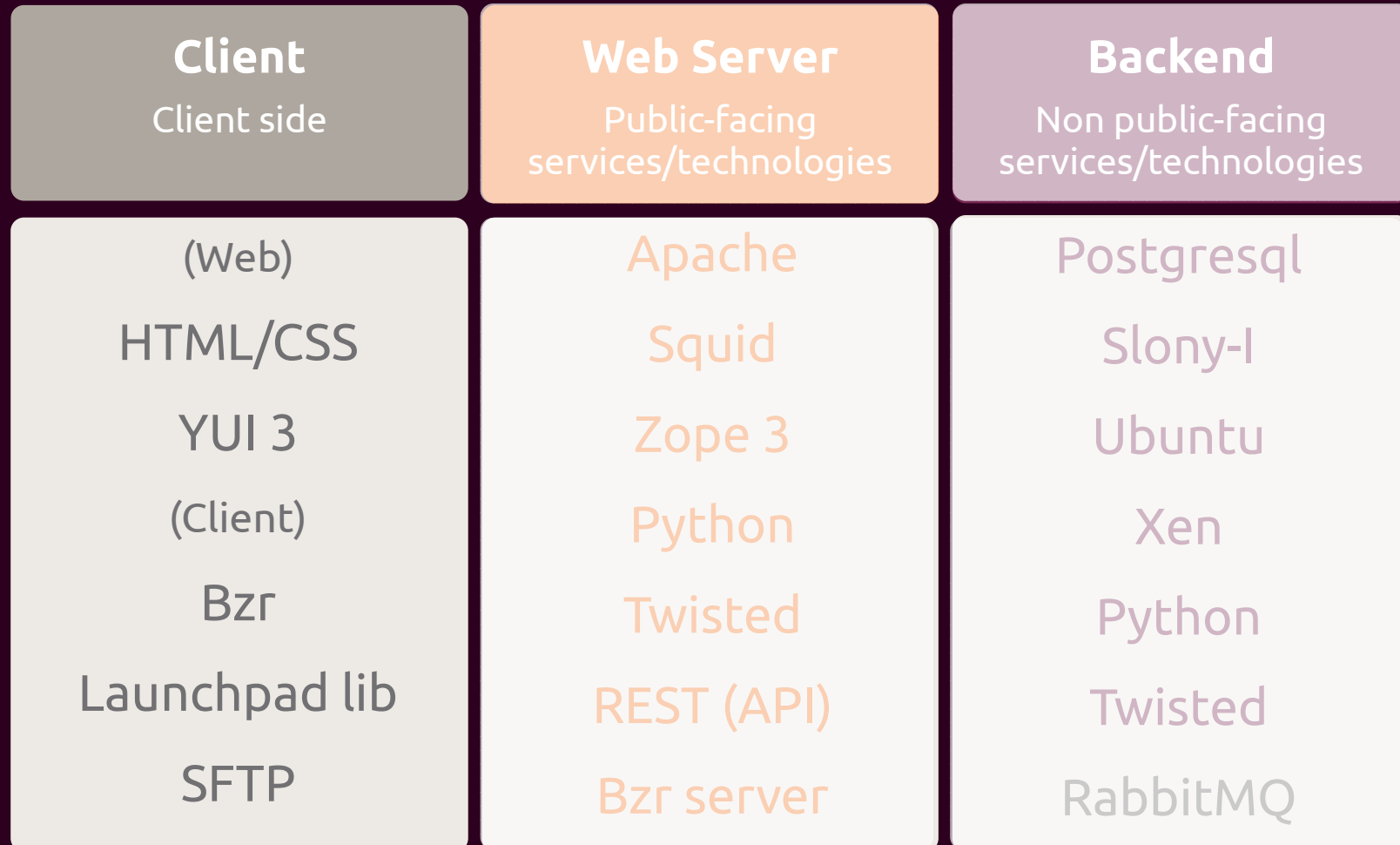


# Plan

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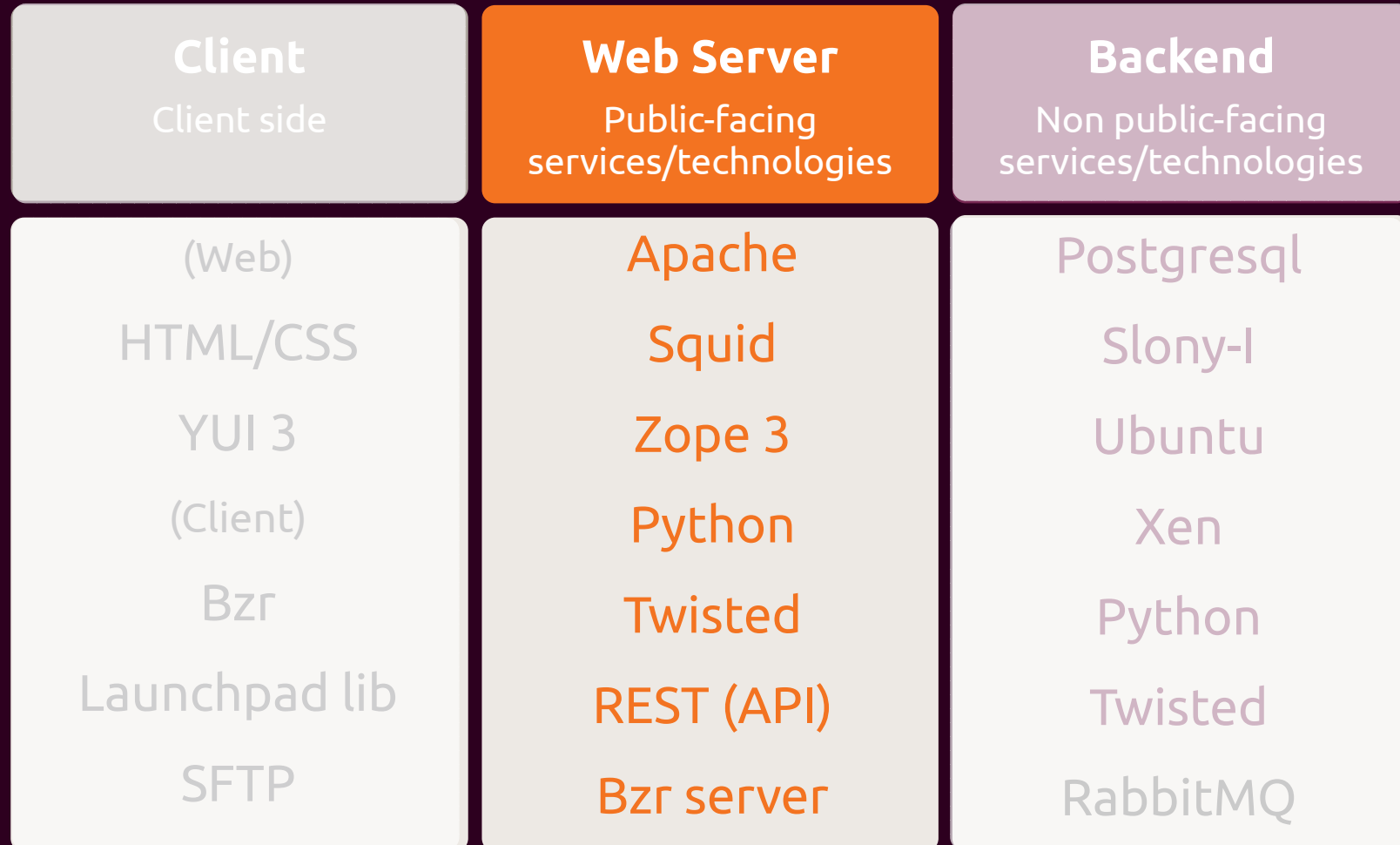


# Technology Stack





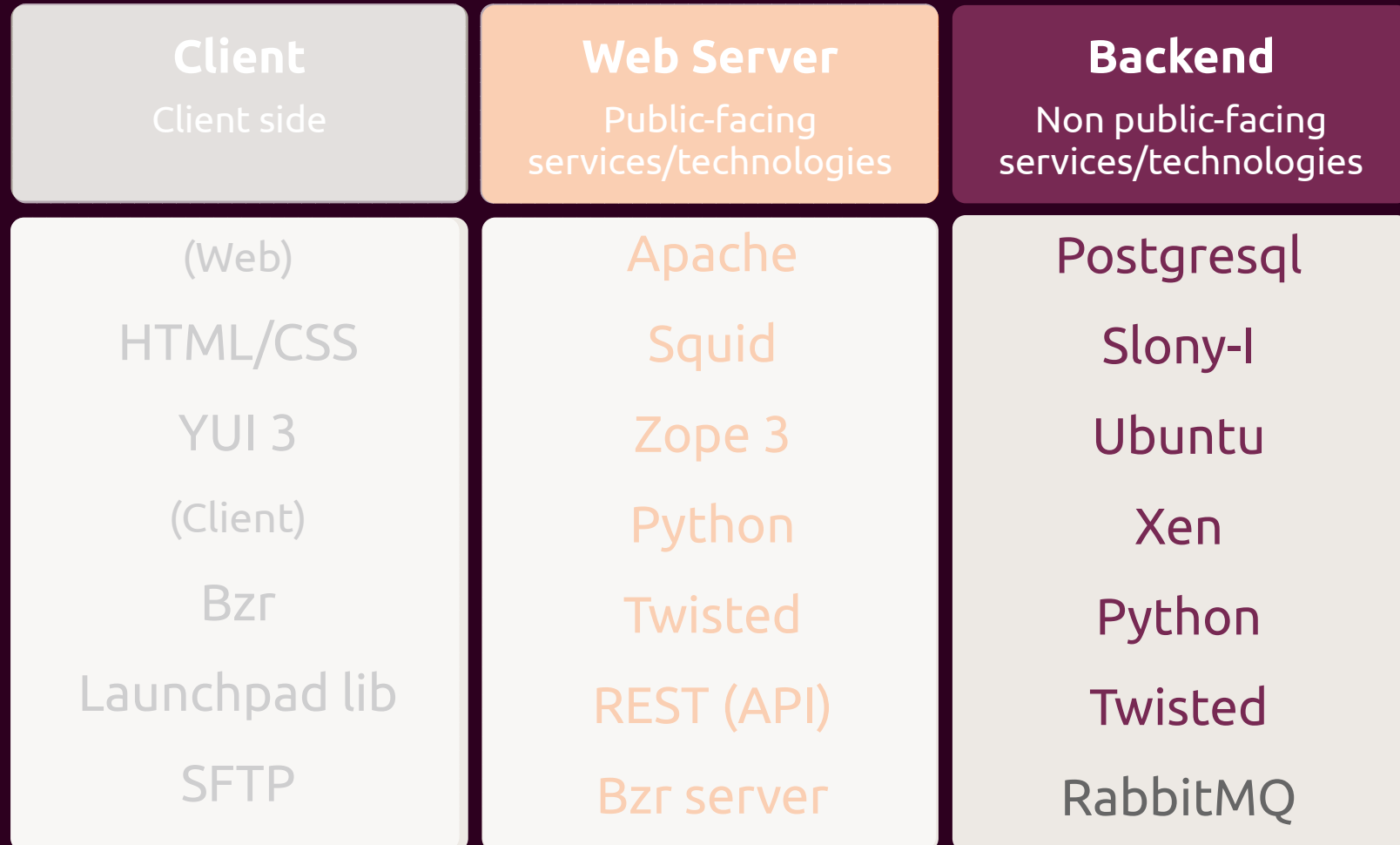
# Technology Stack





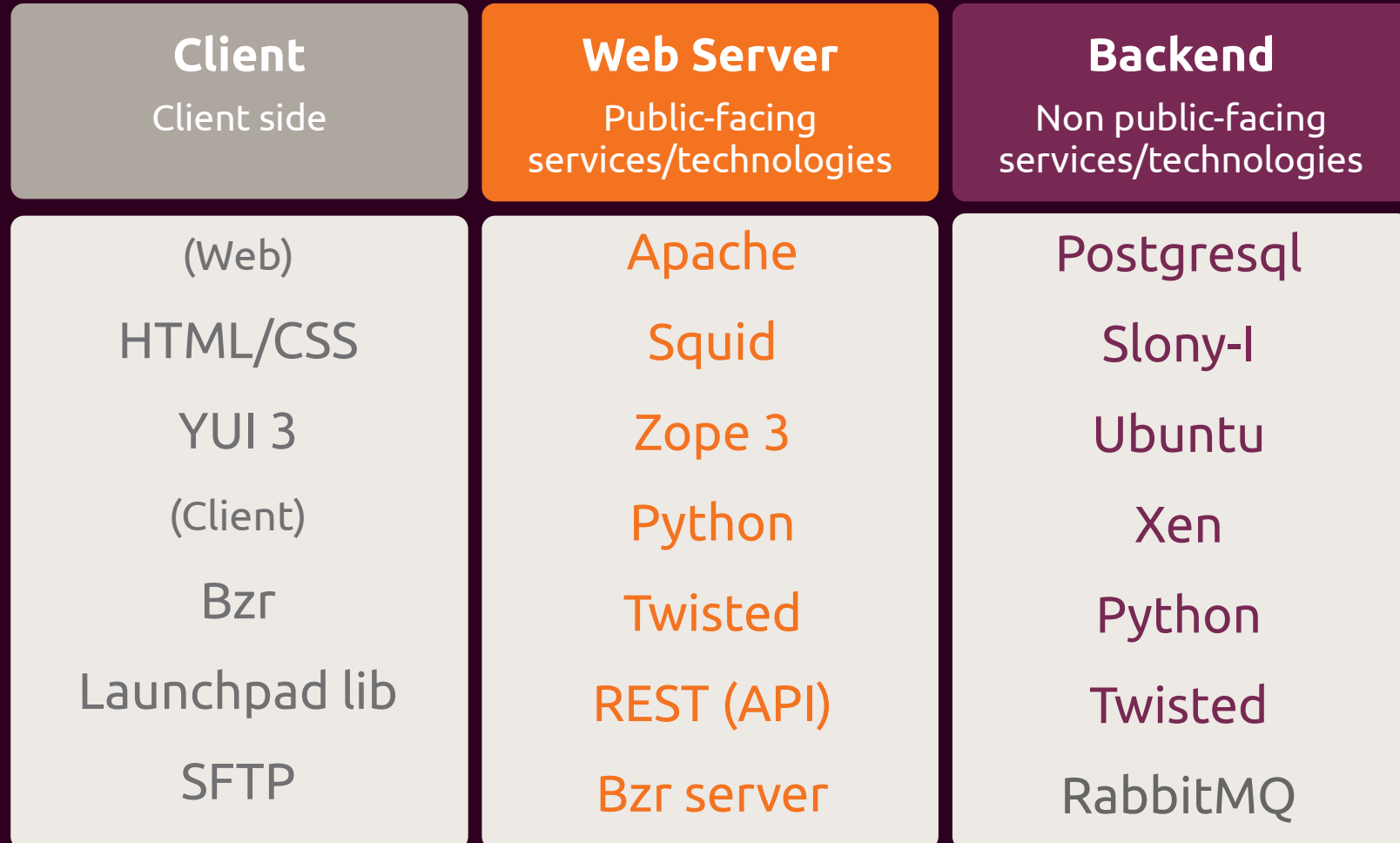


# Technology Stack





# Technology Stack





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## Fact Sheet 1/4

- AGPL3 (<https://dev.launchpad.net>)
- Project started in 2005
- 20 devs
- 420K SLOC (mostly Python)



## Fact Sheet 2/4

- ~23K Active Projects
- ~9K Active PPAs
- ~800K Bugs
- ~415K Branches
- ~1.3M Registered Users (~10K Teams)
- ~1.9K Active Mailing Lists



## Fact Sheet 3/4: Database servers



- PostgreSQL 8.4 / Slony-I 1.2
- ~150G
- 3 Servers: 4 x dual core Opteron, 128GB RAM



## Fact Sheet 4/4: A day in Launchpad

- ~11M Requests/day
- ~5M API Requests/day
- ~15 Projects registered/day
- ~5500 Packages built/day



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# Distribution Modelling

<https://help.launchpad.net/Bugs/MultiProjectBugs>

- Bugs can affect multiple projects / distributions

**Mozilla Thunderbird Mail and News**  
Overview Code **Bugs** Blueprints Translations Answers

## Not able to paste image into thunderbird compose mail window

Mozilla Thunderbird » Bugs » Bug #241276  
Reported by SK on 2008-06-19

This bug affects 2 people. Does this bug affect you?

Affects	Status	Importance	Assigned to	Milestone
Mozilla Thunderbird	In Progress	Wishlist	mozilla-bugs #412196	Mozilla Thunderbird 3.0
Nominated for 2.0 by Andrei Komolov				
thunderbird (Ubuntu)	Fix Released	Wishlist	Unassigned	

Also affects project Also affects distribution



# Personal Package Archive (PPA)

<https://help.launchpad.net/Packaging/PPA>

- Private archive / build system (x86/AMD64)
- Used for
  - Projects not in Ubuntu
  - Custom versions of software packages
  - Backports
  - Development versions / daily build



# Recipes

<https://help.launchpad.net/Packaging/SourceBuilds/Recipes>

- Create Ubuntu source packages with Bzr
- Combine Bzr branches to create source packages

```
# bzr-builder format 0.3 deb-version 1.0+{revno}
```

```
lp:bzr
```

```
merge fix-build lp:~bzr/bzr/fix-build
```

```
[...]
```



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# Recent Infrastructure Work 1/2

- Performance work: avg rendering time from 8s to 3s (since January 2011).



# Recent Infrastructure Work 2/2

- Bug subscription

<https://dev.launchpad.net/LEP/>

BetterBugSubscriptionsAndNotifications

The screenshot shows a web form titled "Add a mail subscription for Launchpad its...". The form is divided into several sections:

- Bug mail recipient:** Two radio buttons are present: "Yourself" (unselected) and "One of the teams you administer" (selected). Below them is a dropdown menu showing "Canonical Launchpad Branches".
- Subscription name:** A text input field containing "My bug email" with a blue question mark icon to its right.
- Receive mail for bugs affecting Launchpad itself that:** Two radio buttons: "are added or closed" (unselected) and "are added or changed in any way" (selected). Below these are two checked checkboxes: "Send mail about comments" and "Bugs must match this filter".
- Tags:** A section with a right-pointing triangle icon and the text "Tags".
- Importances:** A section with a down-pointing triangle icon and the text "Importances". Below it is the text "Select all or Select none" and a row of seven checked checkboxes: "Unknown", "Critical", "High", "Medium", "Low", "Wishlist", and "Undecided".
- Statuses:** A section with a right-pointing triangle icon and the text "Statuses".

At the bottom right of the form, there are two small circular icons: a green checkmark and a red 'X'.



# Ubuntu Distributed Development (UDD)

<https://wiki.ubuntu.com/DistributedDevelopment>

- Goal
  - Ease Ubuntu Development
- Means
  - Add more packaging capabilities to Bzr
  - Use Bzr for packaging data



# Personal Dashboard

<https://dev.launchpad.net/Wishes/PersonalDashboard>

- Right now Launchpad is project centric
- Goal: give an overview of all the tasks for a particular user





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Thanks you!  
Questions?

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