

09-1 Installing Newer Packages

Living on the “Testing” Edge

apt-get install

- **apt-get install** installs a stable version of software
- May not be the most current version
- You can see what's available with

```
bone$ sudo apt-cache pkgnames | sort > /tmp/list
bone$ wc /tmp/list
35899  35899 566661 /tmp/list
bone$ less /tmp/list
0ad-data
2ping
2vcard
3270-common
389-console
3dchess
3depict
```

Example: git

```
bone$ git --version
git version 1.7.10.4
```

- This isn't the current version of git
- <https://packages.debian.org/wheezy/> shows current versions
- <https://packages.debian.org/wheezy/git>
- May not be current version, but is well tested

Installing a more recent version

- Debian has different distributions of packages
- Different levels of testing
- Packages start in *Unstable* distribution
- Move to *Testing*
- Finally move to *Stable* if it is a significant upgrade
- Currently *Wheezy* (version 7) is stable
- *Jessie* (version 8) is in testing
- What if you need a newer version than what Wheezy has?

Backports

- If you don't want to risk a *Testing* distribution...
- Use backports
- Packages taken from the next release and compiled for the current release

```
bone$ echo "deb ftp://ftp.debian.org/debian/ wheezy-backports main
deb-src ftp://ftp.debian.org/debian/ wheezy-backports main" >
/etc/apt/sources.list.d/wheezy-backports.list
bone$ echo "deb ftp://ftp.debian.org/debian/ jessie main
deb-src ftp://ftp.debian.org/debian/ jessie main" >
/etc/apt/sources.list.d/jessie.list
bone$ apt-get update
```

Installing from other releases

```
bone$ git --version
git version 1.7.10.4
```

Had error, but told how to fix it.

```
• Install the Wheezy-backports
bone$ apt-get install git/wheezy-backports
bone$ git --version
git version 1.9.1
• Install the Jessie
bone$ apt-get install git/jessie
bone$ git --version
git version 2.1.1
```