

-
- get list of user installed packages

```
$ comm -23 <(apt-mark showmanual | sort -u) \  
<(gzip -dc /var/log/installer/initial-status.gz | \  
sed -n 's/"Package: //"p' | sort -u)
```

- install vmware-tools

```
$ cd Desktop/  
$ cd vmware-tools-distrib/  
$ sudo ./vmware-install.pl -d
```

- Download anaconda

```
$ cd Downloads/  
$ bash Anaconda3-4.4.0-Linux-x86_64.sh
```

- get ready to install from apt

```
$ sudo apt update  
$ sudo apt dist-upgrade  
$ sudo apt clean  
$ sudo apt autoremove --purge
```

- install git

```
$ sudo apt install git  
$ git config --global user.name "YOUR NAME"  
$ git config --global user.email "YOUR EMAIL"  
$ git config --global core.editor vim  
$ git config --global alias.glog 'log --graph --abbrev-commit --pretty=oneline -decorate'
```

- Copy .git-completion.bash and .git_prompt.sh and place in home directory

- [.git-completion.bash](#)

- [.git_prompt.sh](#)

- install mysql

```
$ sudo apt install mysql-server  
$ sudo apt install mysql-workbench-community  
$ sudo apt install mysql-workbench  
$ sudo mysql_secure_installation  
$ mysql -u root -p
```

- install python-dev

```
$ sudo apt install build-essential python-dev  
$ sudo apt install build-essential python3-dev
```

- consider install following using apt package manager

- python-all-dev
- python-autopep8
- python-bs4
- python-dev
- python-flake8

-
- python-html5lib
 - python-pandas
 - python-matplotlib
 - python-mode
 - python-numpy
 - python-scipy
 - python-setuptools
 - python-tk
 - install vim

```
$ sudo apt remove vim-tiny --purge
$ sudo apt install vim-gnome
```

- install pathogen

```
$ mkdir -p ~/.vim/autoload ~/.vim/bundle && curl -LSso ~/.vim/autoload/pathogen.vim https://tpo.pe/pathogen.vim
# install some vim plugins
$ cd ~/.vim/bundle
$ git clone --depth=1 https://github.com/vim-syntastic/syntastic.git
$ git clone git://github.com/tpope/vim-sensible.git
$ git clone git://github.com/tpope/vim-fugitive.git
$ git clone https://github.com/Chiel92/vim-autoformat.git
$ git clone https://github.com/btc/vim-bad-whitespace.git
$ git clone https://github.com/suan/vim-instant-markdown.git
```

- vim-instant markdown requires install of nodejs and it's package manager

```
$ sudo apt install nodejs
$ sudo apt install npm
```

- install instant-markdown

```
$ sudo npm -g install instant-markdown-d
```

- install ipython

```
$ sudo apt -y install ipython ipython-notebook
```

- install LaTeX

```
$ sudo apt install texlive-full
$ sudo apt install texstudio
```

- Upgrade to TexLive 2016

See <http://tipsonubuntu.com/2016/09/16/install-tex-live-2016-ubuntu-16-04-14-04/>

```
$ sudo add-apt-repository ppa:jonathonf/texlive
$ sudo apt update
$ apt list --upgradable
$ sudo apt install texlive-full
```

-
- install tofrodo

```
$ sudo apt install tofrodo
```

- install gimp

```
$ sudo apt install gimp
```

- install curl, if you don't have it from anaconda

```
$ sudo apt install curl
```

- install JRE

```
$ sudo apt install default-jre
```

- install purge-old-kernels

```
$ sudo apt install byobu  
$ sudo purge-old-kernels
```

- install pandoc

```
$ sudo apt install pandoc
```

- install haskell-stack

```
$ sudo apt install haskell-stack
```

- It is recommended to upgrade, WARNING: takes a long time

```
$ stack upgrade
```

- Setup the haskell stack

```
$ stack setup
```

- install skylighting for syntax highlighting in pandoc PDF generation

```
$ stack install skylighting
```

- install astyle (Artistic Style, code formatter for C family of languages)

```
$ sudo apt install astyle
```

- install spell

```
$ sudo apt install spell
```