

### Virtual Environment (virtualenv & venv)

Install virtualenv	<code>pip install virtualenv</code>
Create virtualenv	<code>virtualenv -p python3 my-env</code>
	<code>python3 -m venv \$my-env</code>
Activate virtualenv	<code>source my-env /b -i n /a ctivate</code>
Deactivate	<code>deactivate</code>
Delete virtualenv	<code>rm -rf my-env</code>

### pip

#### Installation

Install pip python 3	<code>sudo apt-get install python 3-pip</code>
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Install defined library	<code>pip install lib</code>
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`pip install lib==1.4.0`

Uninstall defined library	<code>pip uninstall lib</code>
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Update library version	<code>pip install lib --upgrade</code>
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`pip install lib=1.3.0 --upgrade`

#### Display

Display installed libraries	<code>pip list</code>
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`pip freeze`

Create requirement file	<code>pip freeze &gt; requirements.txt</code>
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Install from requirement file	<code>pip install -r requirements.txt</code>
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Display outdated libraries	<code>pip list --outdated</code>
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### Linux - Directory operations

Show current directory	<code>pwd</code>
Make directory	<code>dir my-dir</code>
Change directory	<code>cd my-dir</code>
Go up a directory	<code>cd ..</code>
List files	<code>ls</code>

### Linux - ls options

Show all (including hidden)	<code>-a</code>
Recursive list	<code>-R</code>
Reverse order	<code>-r</code>
Sort by last modified	<code>-t</code>
Sort by file size	<code>-S</code>
Long listing format	<code>-l</code>
One file per line	<code>-1</code>

### Linux - File operations

Create file	<code>touch my-file</code>
Concatenate files and output	<code>cat my-file1 my-file2</code>
Get type of file	<code>file my-file</code>
Copy	<code>cp my-file copied_file</code>
Move	<code>mv my_file moved_file</code>
Delete	<code>rm my-file</code>
Show first 10 lines	<code>head my-file</code>
Show last 10 lines	<code>tail my-file</code>

### Linux - Search files

Search for pattern in files	<code>grep pattern files</code>
Case insensitive search	<code>grep -i</code>
Recursive search	<code>grep -r</code>
Inverted search	<code>grep -v</code>
Show matched part of file only	<code>grep -o</code>
Find files starting with <i>name</i> in <i>dir</i>	<code>find /dir/ -name name</code>

### Linux - Nano shortcuts

<b>Files</b>	
Read file	<code>Ctrl-R</code>
Save file	<code>Ctrl-O</code>
Close file	<code>Ctrl-X</code>
<b>Cut and Paste</b>	
Start marking text	<code>Alt-A</code>
Cut marked text of line	<code>Ctrl-K</code>
Paste text	<code>Ctrl-U</code>
<b>Navigate file</b>	
End of file	<code>Alt-/</code>
Beginning of line	<code>Ctrl-A</code>
End of line	<code>Ctrl-E</code>
Show line number	<code>Ctrl-C</code>
Got to line number	<code>Ctrl_</code>
<b>Search file</b>	
Find	<code>Ctrl-W</code>
Find next	<code>Alt-W</code>
Search and replace	<code>Ctrl-\</code>



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