Notes for Raspberry Pi

#pi #notes

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1. Utilities

1.1. Terminal multiplexer

`screen` is a terminal multiplexer program that allows managing several Terminal sessions from with the single window. Start a new session and detach it to leave it running in background even the terminal is ended (like disconnected `ssh` session), then resume that session later.

Similar to `tmux`

1.2. CPU Usage

`top` shows the average CPU Usage in an interval of time, such as 1 second.

`ps` shows the average CPU Usage of a process from when it has started.

`tload` shows the CPU Usage history in simple graph in terminal.

2. Python packages

Most packages can be installed using `sudo apt-get install` followed by `python-<packagename>` (for Python2) or `python3-<packagename>`.

In some cases, a package is not available on the OS package manager, so install that packages via `pip` from python package manager.

Install `pip` first:

```
sudo apt install python-pip python3-pip
```

Then install the target package.

For example:

```
sudo apt install python-ws4py python3-ws4py
```

is equivalent to:

```
pip install ws4py # python2 package
pip3 install ws4py
```

Footnotes:

1. Add a form in markdown:

```html
<form role="search" target="_blank" action="https://packages.debian.org/search">
  <div>
    <input type="search" id="mySearch" name="keywords"
        placeholder="Enter package name..."
        aria-label="Search for a package name"
        style="border:1px solid gray; padding: .25em .5em;" >
    <button type="submit" class="md-button">Search</button>
  </div>
</form>
```

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