

Development Arsenal ^{mini} ~~Arsenal~~ _^ Toolbox

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This talk is about:

Quick list of tools that might be useful in your day to day development.

This talk is NOT about:

**Basic commands, introduction to Linux,
tutorial, programming or other things not
mentioned on the previous slide.**

Hard requirements:

- Experience with any shell
- Comfortable with keyboard shortcuts
- Lazy!



What we are going to talk about:

- `pt`
- `peco`
- `glances`
- `zsh`
- `tmux`
- `xmonad`

pt

A code search tool.

https://github.com/monochromegane/the_platinum_searcher

```
marconi@lasercake ➔ /boots <master*>  
$ pt -G client* func  
client/client.go:  
25:func NewClient(host, vhost string) *Client {  
30:func (c *Client) Connect() error {  
78:func (c *Client) Send(param SendParam) error {  
  
client/client_test.go:  
10:// func TestConnectFailed(t *testing.T) {  
23:func TestConnectSuccess(t *testing.T) {  
30:func TestSendSuccess(t *testing.T) {
```

peco

Simplistic interactive filtering tool.

<https://github.com/peco/peco>

```
marconi@lasercake → /marconi  
$ ps aux | peco
```

```
QUERY> java
```

marconi	7996	0.4	0.9	5418232	72064	s003	S	Fri12PM	8:27.71	/
marconi	39373	0.2	0.9	5413964	79472	s003	S	Sat03PM	5:28.18	/
marconi	46484	0.1	0.9	5397980	77228	s003	S	9:02PM	5:52.71	/
marconi	3774	0.1	0.9	5437136	71996	s003	S	Fri09AM	9:01.43	/
marconi	9704	0.1	0.9	5418972	72224	s003	S	Fri01PM	10:32.72	/
marconi	44857	0.1	1.5	5421132	128188	s003	S	8:33PM	4:25.06	/
marconi	42659	0.1	0.9	5414788	77652	s003	S	7:38PM	4:58.55	/
marconi	43580	0.1	0.9	5414272	74644	s003	S	7:54PM	4:55.93	/
marconi	88585	0.1	1.0	5451204	86392	s003	S	11:35AM	4:23.92	/
marconi	45470	0.0	1.5	5413208	127940	s003	S	8:45PM	4:50.23	/
marconi	7494	0.0	1.1	5400668	91136	s003	S	Fri12PM	8:25.96	/
marconi	3763	0.0	0.3	3757668	23108	s005	S+	Fri09AM	3:59.28	/
marconi	3758	0.0	0.3	3787800	28928	s005	S	Fri09AM	8:30.43	/

glances

An eye on your system.

<https://github.com/nicolargo/glances>

lasercake.local (Darwin 10.9.3 64bit)													
CPU	6.2%												
user:	3.0%	nice:	0.0%	Load	4-core	Mem	81.7%	active:	1.44G	Swap	64.8%		
system:	3.2%			1 min:	1.76	total:	8.00G	inactive:	1.44G	total:	4.00G		
idle:	93.8%			5 min:	2.04	used:	6.54G			used:	2.59G		
				15 min:	2.15	free:	1.46G			free:	1.41G		
Network	Rx/s	Tx/s	Tasks	183 (1204 thr), 183 run, 0 slp, 0 o sorted by memory_percent									
bridge0	0b	0b											
en0	15Kb	0b	VIRT	RES	CPU%	MEM%	PID	USER	NI	S	TIME+	NAME	
en3	0b	0b	3.5G	228M	0.0	2.8	91574	marconi	0	R	4:20.73	/Applications/Keynote.app/Contents/MacOS/Ke	
en4	0b	0b	3.1G	138M	0.0	1.7	93317	marconi	0	R	1:10.98	Adobe Photoshop CS6	
gif0	0b	0b	982M	133M	0.1	1.6	92052	marconi	0	R	2:48.75	Google Chrome Helper	
lo0	9Kb	9Kb	1.7G	108M	1.3	1.3	308	marconi	0	R	0:28.72	/Applications/Google Chrome.app/Contents/Ma	
p2p0	0b	0b	5.2G	84M	0.2	1.0	9704	marconi	0	R	10:34.85	java	
stf0	0b	0b	4.1G	82M	0.0	1.0	314	marconi	0	R	9:58.40	/System/Library/CoreServices/Finder.app/Con	
			2.7G	78M	0.0	1.0	91635	marconi	0	R	0:05.22	com.apple.ShareKitHelper	
Disk I/O	In/s	Out/s	5.2G	75M	0.4	0.9	88585	marconi	0	R	4:26.63	java	
disk0	7K	589K	1.1G	70M	0.0	0.9	588	marconi	0	R	7:48.13	Google Chrome Helper	
			5.2G	68M	0.3	0.8	44857	marconi	0	R	4:26.99	java	
Mount	Used	Total	5.2G	68M	0.2	0.8	42659	marconi	0	R	5:00.46	java	
/	85.6G	112G	5.2G	67M	0.2	0.8	45470	marconi	0	R	4:52.21	java	
			5.2G	66M	0.3	0.8	43580	marconi	0	R	4:57.86	java	
			5.1G	62M	0.4	0.8	46484	marconi	0	R	5:54.61	java	
			5.2G	62M	0.3	0.8	39373	marconi	0	R	5:30.44	java	
			3.0G	61M	0.9	0.7	311	marconi	0	R	9:44.42	/Applications/iTerm.app/Contents/MacOS/iTer	
			5.2G	60M	0.3	0.7	7494	marconi	0	R	8:27.90	java	
			5.2G	60M	0.3	0.7	7996	marconi	0	R	8:29.54	java	
			5.2G	60M	0.2	0.7	3774	marconi	0	R	9:03.34	java	
			909M	52M	0.1	0.6	92313	marconi	0	R	0:05.71	Google Chrome Helper	
			19.7G	45M	1.3	0.5	310	marconi	0	R	12:31.29	/Applications/Mou.app/Contents/MacOS/Mou -p	

zsh (Z-Shell)

An interactive shell with powerful scripting support.

<https://github.com/robbyrussell/oh-my-zsh>

- Programmable command line completion
- Sharing of history between all running sessions
- Themeable prompts
- Completion
- Plugins
- Fully customisable

tmux A terminal multiplexer.

<http://tmux.sourceforge.net/>

```
marconi@lasercake ~ /sensei <devel>
$ go run *.go
2014/06/22 18:52:25 handling namespace /static
2014/06/22 18:52:25 handling GET /
2014/06/22 18:52:25 handling GET /teachers
2014/06/22 18:52:25 handling GET /teachers/add
2014/06/22 18:52:25 handling POST /api/teachers
18:52:31.642584 UU0araSje0N90VRF >
18:52:31.642611 UU0araSje0N90VRF > OPTIONS /api/teachers HTTP/1.1
18:52:31.642620 UU0araSje0N90VRF > User-Agent: curl/7.30.0
18:52:31.642626 UU0araSje0N90VRF > Accept: */*
18:52:31.642631 UU0araSje0N90VRF >

* About to connect() to localhost port 3001 (#0)
* Trying ::1...
* Connected to localhost (::1) port 3001 (#0)
> OPTIONS /api/teachers HTTP/1.1
> User-Agent: curl/7.30.0
> Host: localhost:3001
> Accept: */*
>
< HTTP/1.1 200 OK
< Allow: OPTIONS, POST
< Content-Type: application/json
< Date: Sun, 22 Jun 2014 10:52:31 GMT
< Content-Length: 29
<
{"allow":["OPTIONS","POST"]}
* Connection #0 to host localhost left intact
marconi@lasercake ~ /marconi
$
```

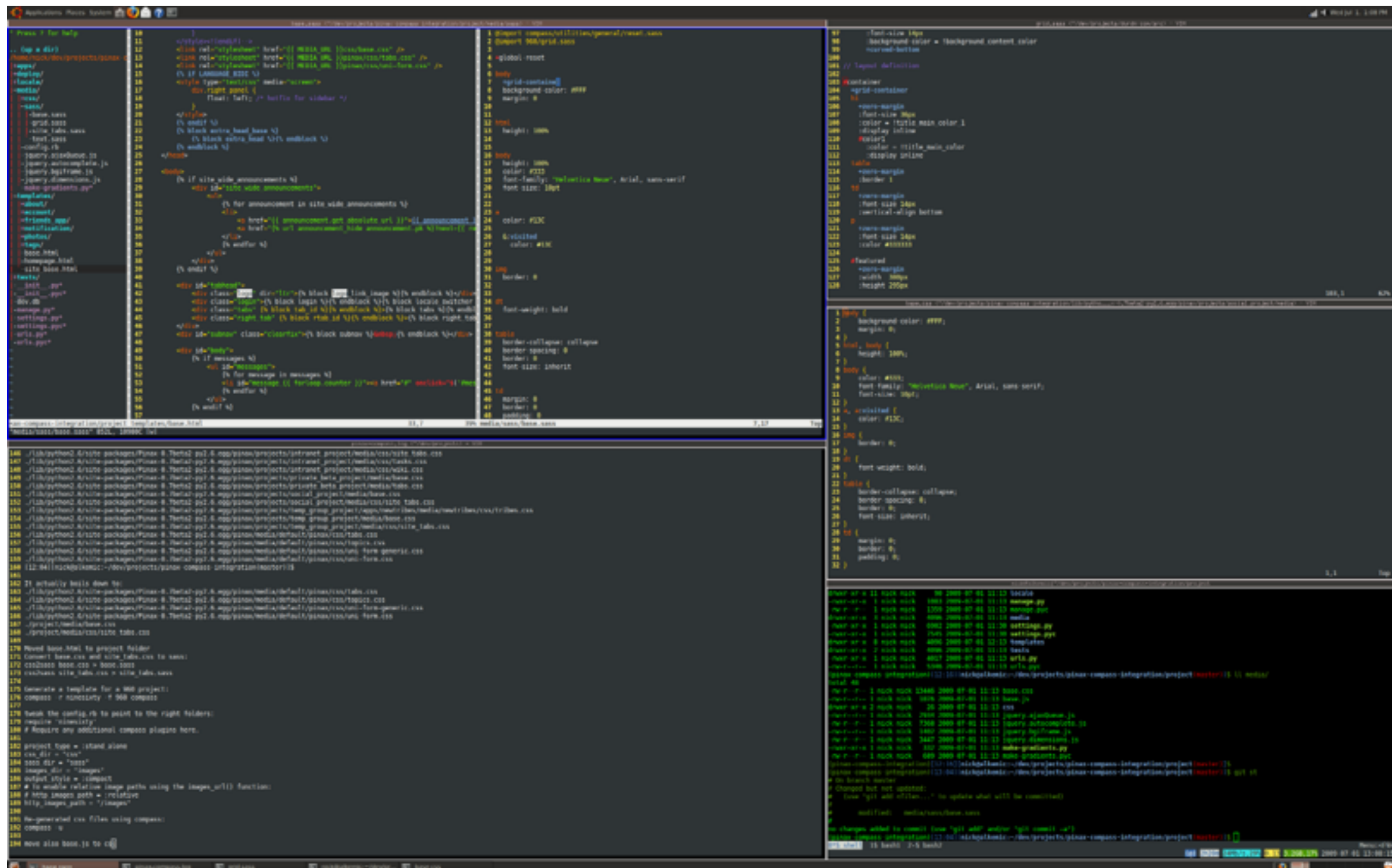
```
marconi@lasercake ~ /static <devel>
$ grunt watch
Running "watch" task
Waiting...
```

boots 1 2 1:sensei* 22 Jun 18:52

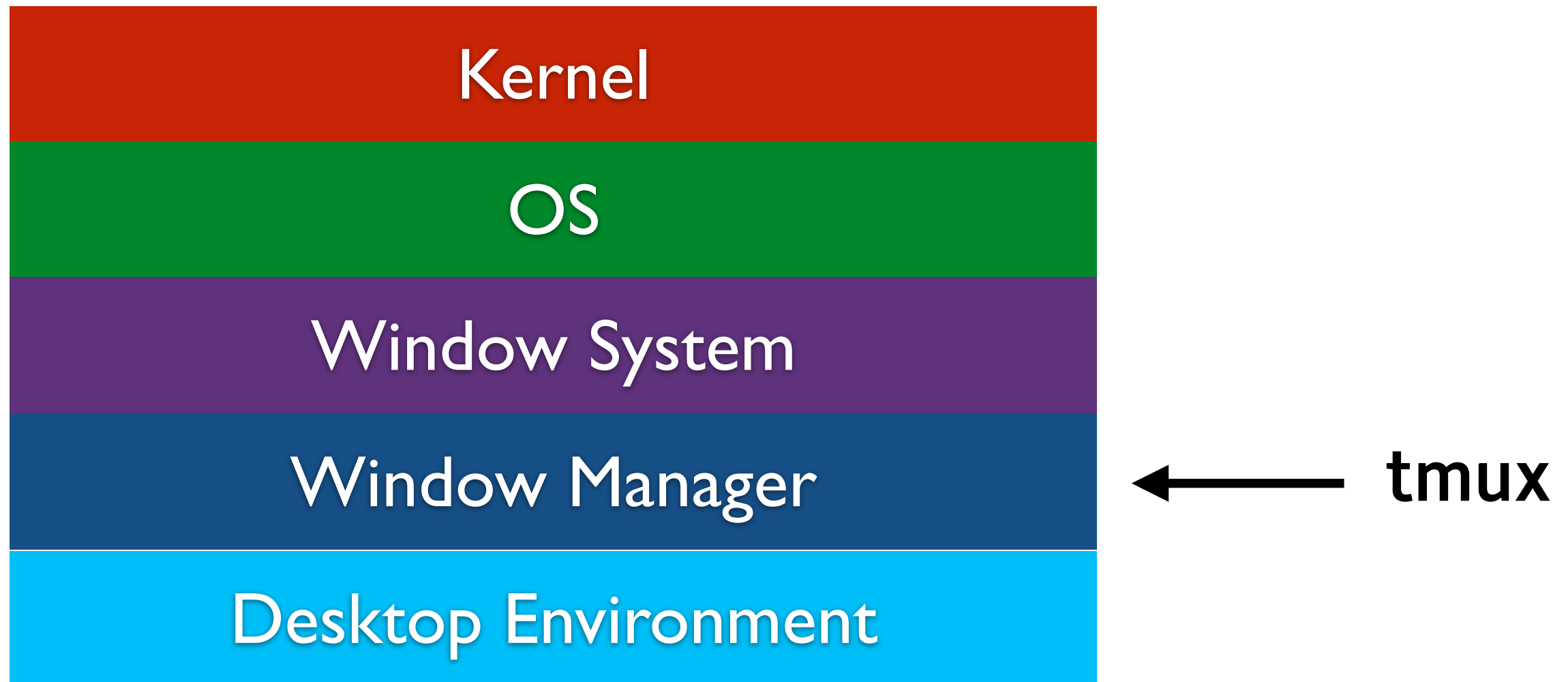
xmonad

A dynamically tiling X11 window manager.

<http://xmonad.org/>



Linux Graphical Layers



Demo

Thank you

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<http://marconijr.com>

<https://github.com/marconi>