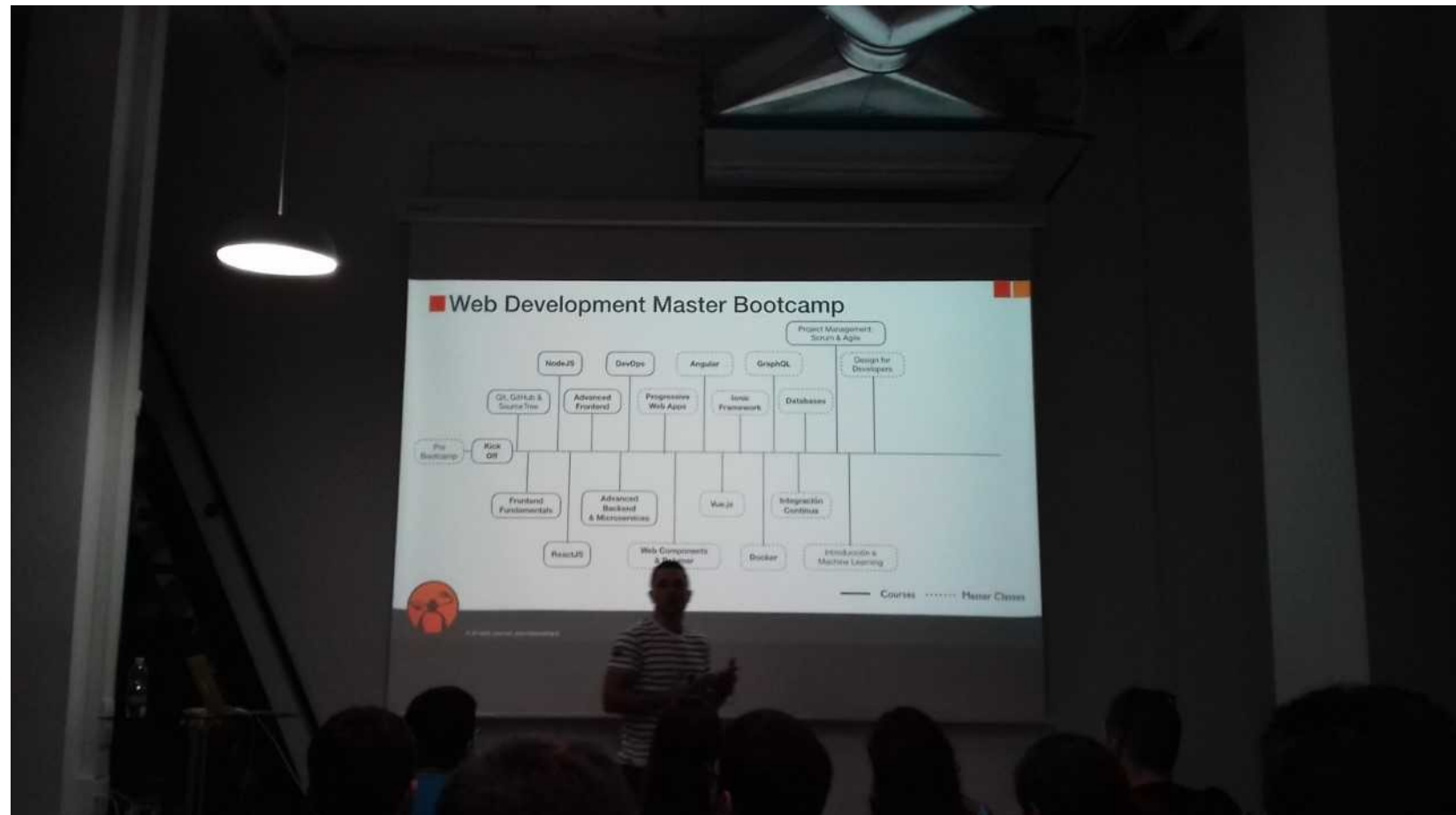


Static web generators and Python

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So you want make web publishing



No money! No time!
This technology will be obsolete soon!
Only HTML!

Do you remember the real problems?

- Reuse text to avoid mistakes
- HTML sometimes is complex to be read and write by a single human. Divide and simplify your HTML to conquer.
- Another humans wants publish in your site

Four approaches to static web publishing

- Only templates
- Only simple text format.
- Using a standard framework
- Using a full static page generator

Only templates: a pythonic way

```
class CGImethod(object):
    def __init__(self, title):
        self.title = title
    def __call__(self, fn):
        def wrapped_fn(*args):
            print("Content-Type: text/html\n\n")
            print("<HTML>")
            print("<HEAD><TITLE>{}</TITLE></HEAD>".format(self.title))
            print("<BODY>")
            try:
                fn(*args)
            except Exception as e:
                print(e)
            print("</BODY></HTML>")
        return wrapped_fn
```

```
@CGImethod("Hello with Decorator")
def say_hello():
    print('<h1>Hello from CGI-Land</h1>')
```

```
say_hello()
```

```
@CGImethod("Hello with Decorator")
def say_hello2():
    print('<h1>Hello from CGI-Land</h1>\n' '<p>and paragraph</p>')
```

Only templates: a pythonic way (II)

Advantages:

- Full control over source

Disvantages

- HTML is more complex than a structured wiki format, such as, markdown or orgmode.

Only simple text format

MARKDOWN

```
$ git clone https://github.com/trentm/python-markdown2.git  
$ cd python-markdown2/bin  
$ ./markdown2 ../README.md > /tmp/README.html
```

ORGMODE

```
M-x org-html-export-to-html  
python3 orgpython-example.py
```

WORG is a orgmode git wiki

Build from your framework

FLASK

```
$ git clone https://github.com/davidam/libremanuals.github.io  
$ cd libremanuals.github.io/source  
$ python3 libremanuals.py # launch the server  
$ ./update-libremanuals.sh # create the static pages
```

Advantages

Solved standard web programming troubles such as i18n or templating

Disvantages

You must learn the framework in the core to extend the framework

Enjoy a full static page generator

PELICAN

```
$ make html
```

```
pelican /home/davidam/tmp/content -o /home/davidam/tmp/output -s  
/home/davidam/tmp/pelicanconf.py
```

```
Done: Processed 2 articles, 0 drafts, 0 pages, 0 hidden pages and 0 draft pages in 0.08  
seconds.
```

```
$
```

Advantages

All problems generating static pages is solved

- Commands to publish in standard sites (ssh, ftp, dropbox, github, etc.)
- Support to orgmode, or markdown in a templating system

Disvantages

You must learn config, plugins and commands

- You are not the real programmer
- There are different options: pelican, jekyll, ...
- When you learn the code you are not learning a standard