LEARN WEB

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github.com/ale66/learn-web

BEYOND HTML

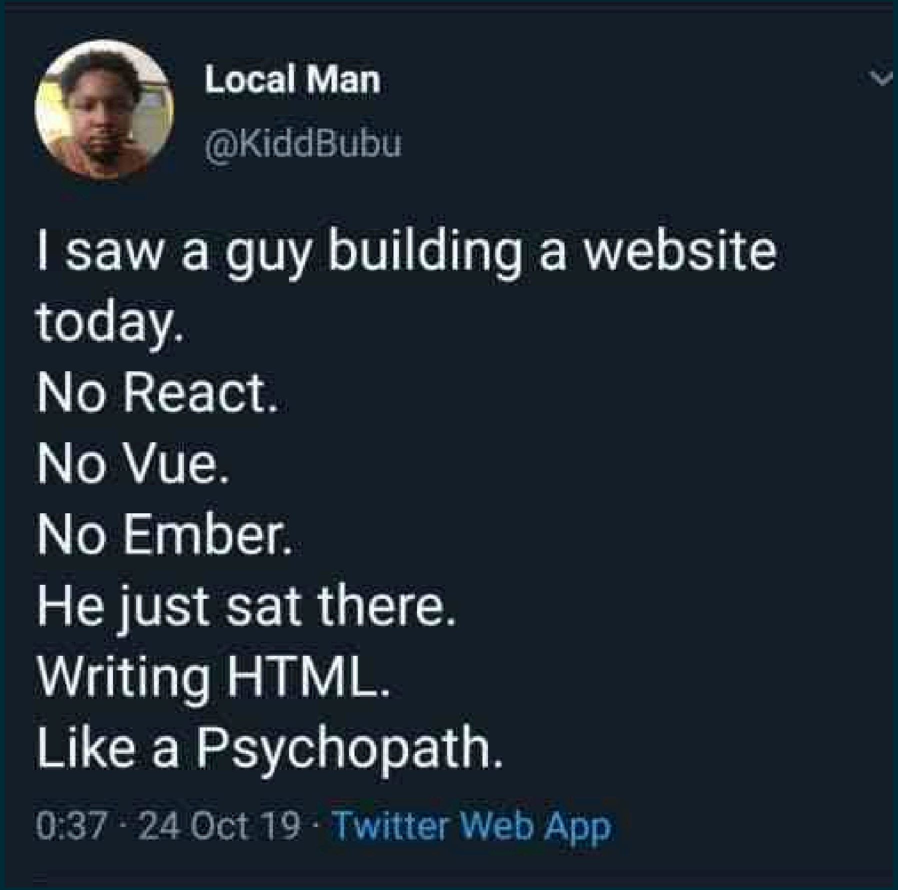
SATURDAY SPECIAL ARRANGEMENTS

Around 10:30:

- end-of-class coffee at the *Babila Hostel-Bistro*

WEB PAGES, TODAY

Writing direct HTML today could actually make you look strange, at least:



Local Man
@KiddBubu

I saw a guy building a website today.
No React.
No Vue.
No Ember.
He just sat there.
Writing HTML.
Like a Psychopath.

0:37 · 24 Oct 19 · Twitter Web App

There are increasing levels of adoption of standard *platforms*:

sets of ancillary `.css` and `.js` files which are included in the page and determine the overall visuals and how the page interacts.

Bootstrap 5 is a platform.

1. make your own files, include CSS and javascript

Total creative control

need to learn and practice HTML, CSS and JS.

2. Include a Bootstrap 5 template.

Can you follow the Bootstrap 5 Cheatsheet?

3. include a Wordpress theme.

Less control but a uniform, smooth appearence.

4. include a Javascript *framework*

pages are created by JS functions which parse cookies and users’ moves and select the appropriate elements.

Examples: Angular (Google), Webix…

able to collect and send back for analysis the telemetry of user movements, e.g., how long time is dedicated to reading each post.

5. work in a programming language to create HTML files dynamically.

Example: the Flask module for Python

Create HTML files dynamically, by writing Python functions which return HTML code

Take module `C4CSS: Coding for the Computational Social Sciences (6CFU)` to learn Python.

Mixing HTML and Python code in the same file:

```
<!doctype html>
<title>Hello from Flask</title>
{% if name %}
  <h1>Hello {{ name }}!</h1>
{% else %}
  <h1>Hello, World!</h1>
{% endif %}
```

ADVANCED MARK-UP

DECORATION AND INJECTION

Marking-up your text to program its visualisation is *decoration*

Examples: MS Word, HTML5

Whereas HTML5 can be inspected and modified, in MS Word your text is *embedded* into the file

INJECTION

Adding mark-up commands to your text with software is *injection*

An HTML5 with a side `script.js` is an example of injection.

As G. Orwell would put it: decoration good, injection better!

Today injection is often carried out via pandoc.

THE PANDOC SOFTWARE

Pandoc = all documents.

Peels the decorations out, gives the content to the needed **injector**

On Win, install it via Chocolatey:

```
choco install pandoc
```

On Apple, use Homebrew:

```
brew install pandoc
```

WORK WITH PANDOC

Magic commands to transform files:

```
pandoc --from=txt mytext.txt -t html -o mypage.html
```

```
pandoc --standalone --from markdown --to html5 myfile.md -o myoutputfile.hmtl
```

more examples here.

Try it into the online sandbox

Example: Revealjs slides

```
pandoc --from markdown myideas.md \
--to revealjs -s --slide-level=2 \
-o mypres.html \
-V theme=dracula \
-V transition=convex
```

PRESENTATION VS. WEB PAGE

Today this distinction is blurring thanks to Javascript-based presentations that become web pages.

- presentation: synchronous, restricted
- Web page: asynch., universal.

Yet, we see the rise of manifold pages.

REMARKJS

MD cheatsheet

Familiarise with the Remarkjs FrameworK

https://remarkjs.com/#1

The ‘#1’ is the page/slide number:

https://my-schematic-remark-presentation.andreamariadt.repl.co/#1

See the source of the intro slides to Remarkjs

```
<!DOCTYPE html>
<html>
  <head>
    ...
  </head>
  <body>
    <textarea id="source">
      name: inverse
      layout: true
      class: center, middle, inverse

      ---

      # remark

      [ri-mahrk]

      .footnote[Go directly to [project site](https://github.com/gnab/remark)]
```

Notice non-MD directives, e.g., `class: center, middle`

FROM MD TO SLIDES

Pandoc can generate a HTML file with slides

Use MD annotations with two extra conventions

By default, `#` for section title and `##` for slide title

a slide separator is needed: it redefines the meaning of `---` in MD

Sometimes `-----` is used.

Idea: keep the Markdown in a separated file, keep the HTML and Javascript boilerplate in a general `index.html` file

REVEALJS

A project now available as a stand-alone slides.com

A refined set of Javascript embeddings is available from the main site

Let’s focus on MD embeddings

From MD notes, eg, file `myideas.md` to a Revealjs pitch deck, eg. file `mypres.html` in one minute:

```
pandoc --from markdown myideas.md \
--to revealjs -s --slide-level=2 \
-o mypres.html \
-V theme=dracula \
-V transition=convex
```

WHAT ABOUT POWERPOINT?

The first release was in 1987 [source: Wikipedia], i.e., well before the *internet revolution*.

For reference, this was fashion in 1987

github.com/ale66/learn-web

Today,

1. everything is hyper-linked and hardly any document is self-contained
2. Cross-publishing invariably means changing styles
3. yet, content is often ambivalent synch/asynch

JS-based presentations have the concept of *linking* (and re-processing) at the core.

Powerpoint can only hope to import it in…