



HTML

Or how the web got started...

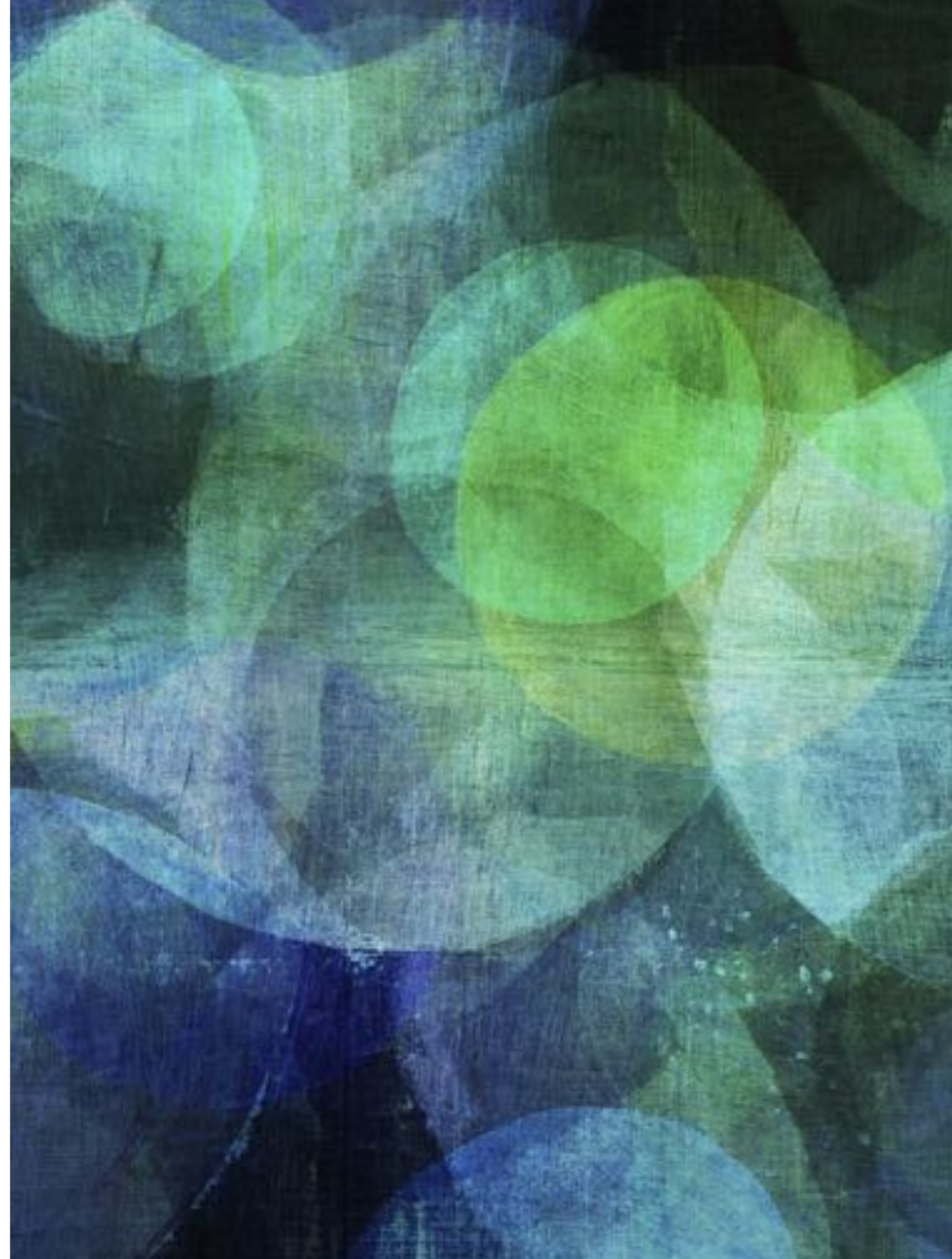




JUST A LITTLE BIT OF ME

- Got my first computer when I was 12.
- Went to Community College, learned Computer Sciences
- Went to College, learned Computer Sciences
- Created my first startup while in college... and it was an ISP - Internet Service Provide
- Created my first website in 1994
- Had to learn HTML to do it

**SO WHY DO I
NEED TO LEARN
THAT?**





*A computer - desktop,
laptop, smartphone, tablet...*

Photo © Jean Georges Perrin



Connects to the cloud...

Photo © Theaucitron, Flickr

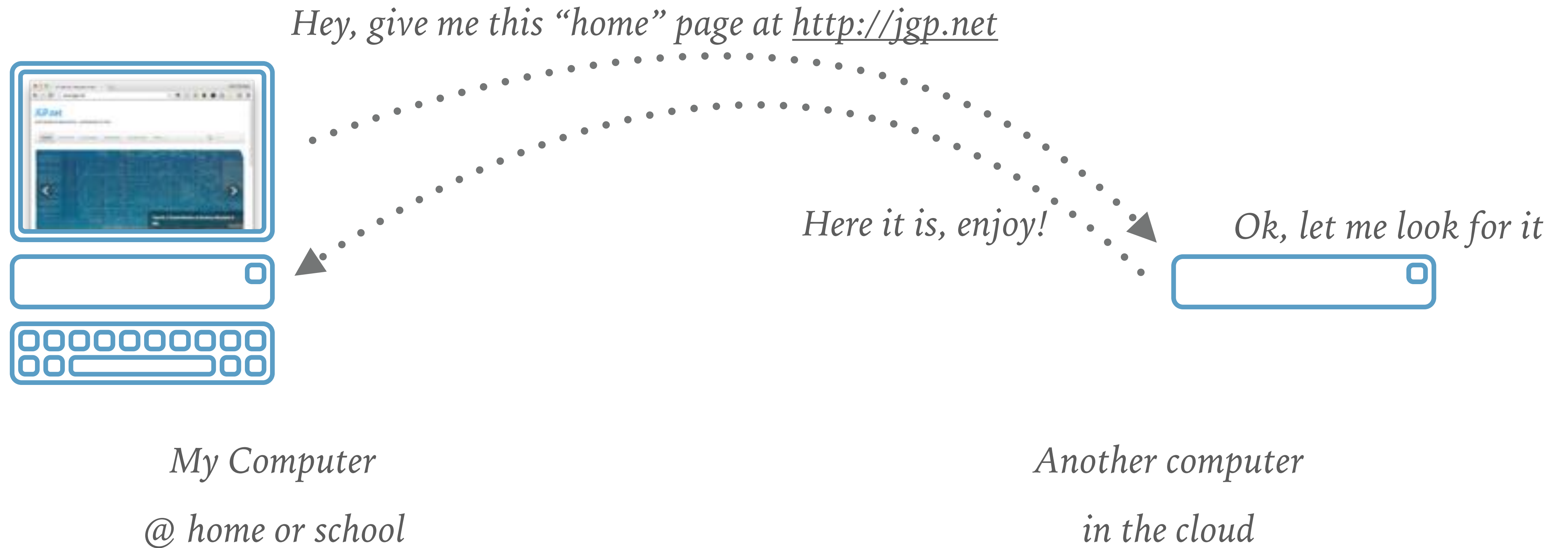


*Or more probably to servers
in a data center...*

Photo © Kattanapilot, Flickr

How does this thing work anyway?

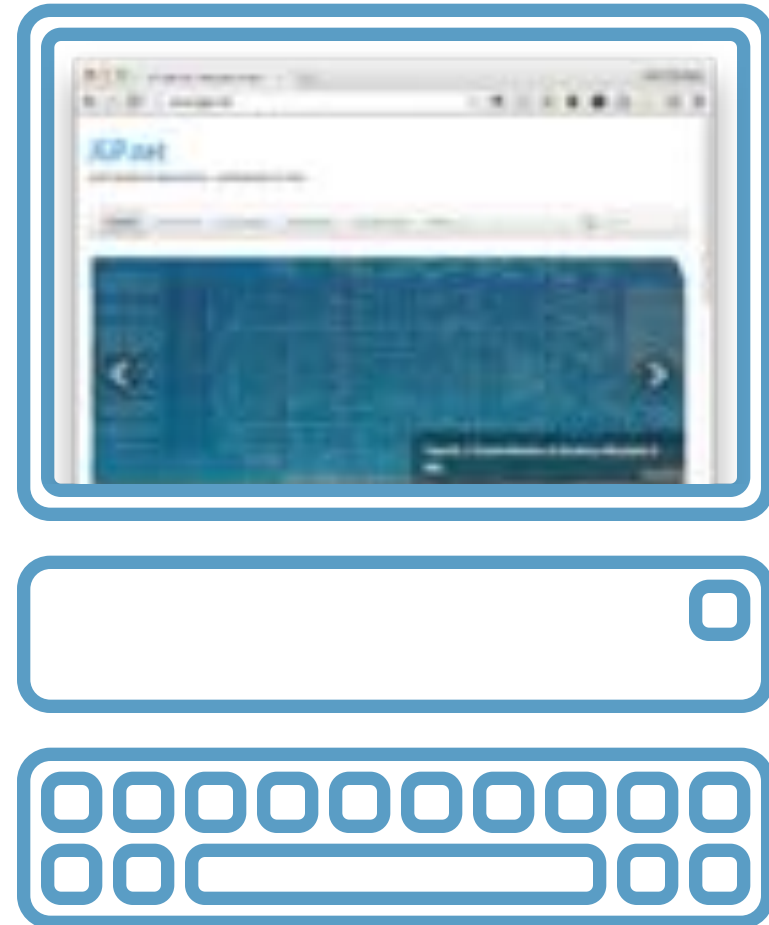
THAT'S ALL NICE, BUT HOW DOES IT REALLY WORK?



A LITTLE VOCABULARY

*The computer at home is a **client***

*The client runs a web **browser***



*The commands are defined by a **protocol***

*The protocol understood by the web is called **HTTP***

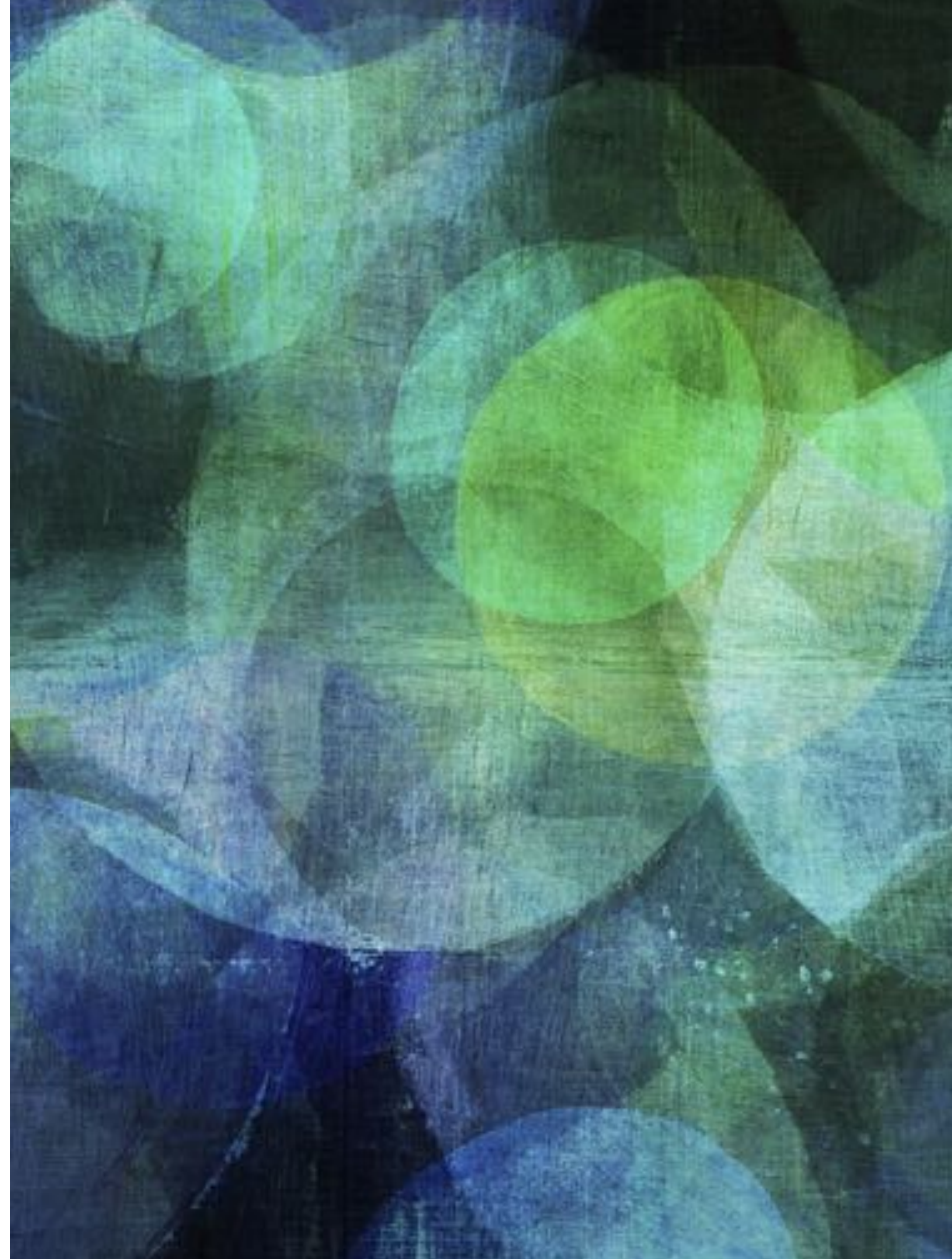
Have you ever seen that?
<http://google.com>

*The computer in the cloud or data center is a **server***

*The server serves **HTML pages** (and other documents)*



**HTML... WHAT
DOES IT LOOK
LIKE?**

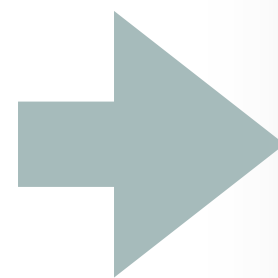


HTML IS EASY BECAUSE IT IS LIKE WRITING TEXT

Simply add markup

`<html>hello, world</html>`

And the result is...





EXERCISE #1

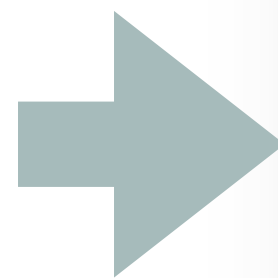
- Let's do our first HTML page with **notepad**
- Let's call our page "hello.html"

BUT... IT'S A LITTLE UGLY, NO?

Simply add more markup

`<html>hello, world</html>`

And the result is...

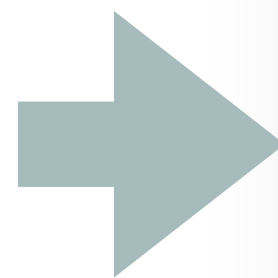


WELL...

Different markup different results

`<html><i>hello, world</i></html>`

And the result is...



EXERCISE #2

- Let's write "hello" in **bold** and "world" in *italic* in the same page

Solution:

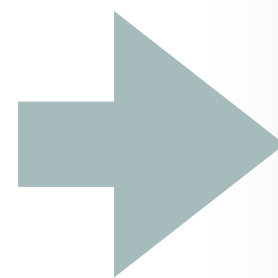
```
<html>  
<b>hello</b>, <i>world</i>  
</html>
```

AND EVEN...

Underline is not recommended as users think they are links

`<html><u>hello, world</u></html>`

And the result is...



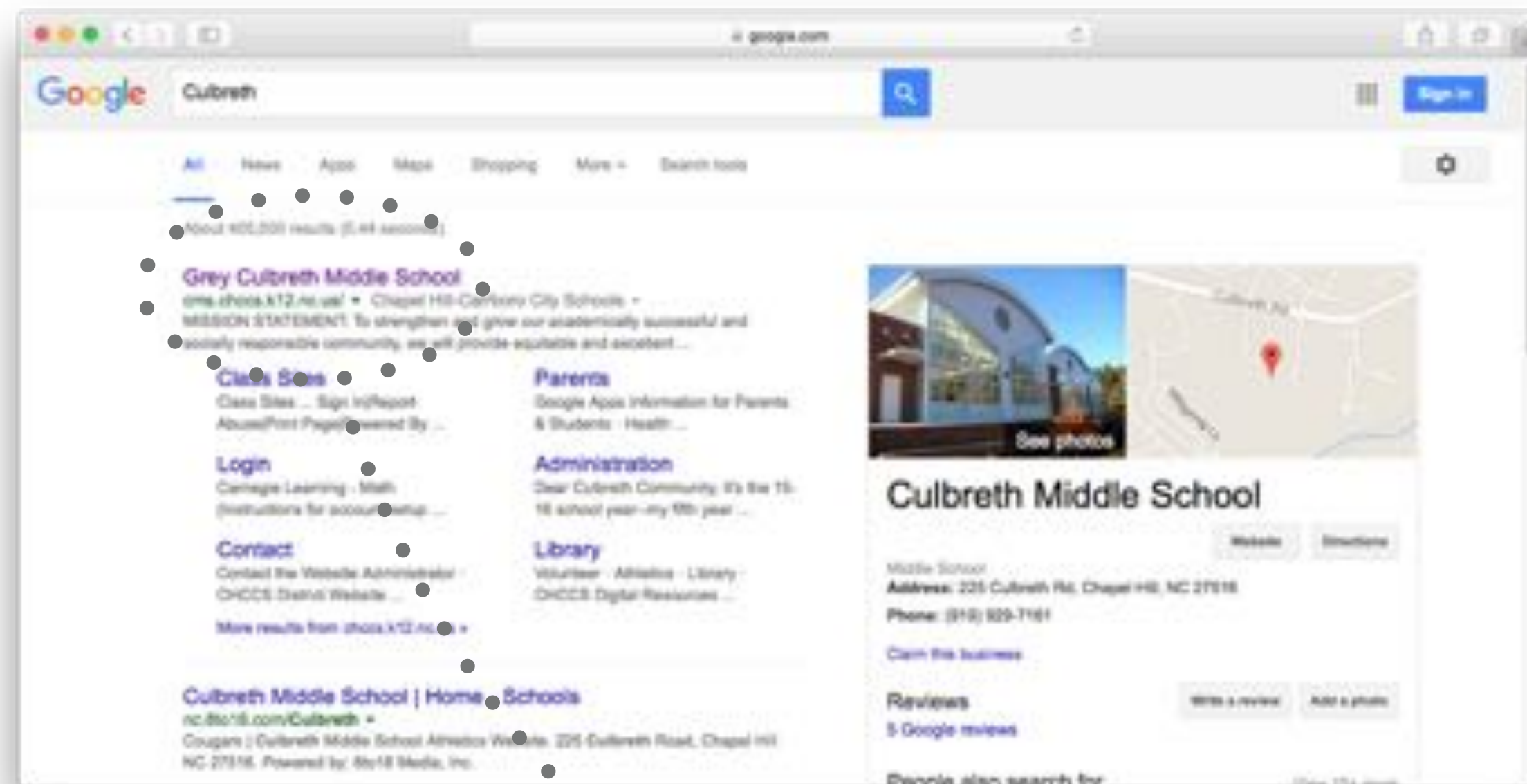
LINK, DID YOU SAY LINK?

Not exactly Link, more like “link”



WELCOME TO HYPERLINK!

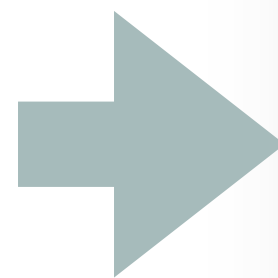
- It's not just a link, it is a hyperlink!
- A hyperlink can make you jump from one page to another...



SO LET'S BUILD A PAGE WITH A LINK TO THE SCHOOL

```
<html>  
<a href="http://cms.chccs.k12.nc.us">  
Culbreth Middle School  
</a>  
</html>
```

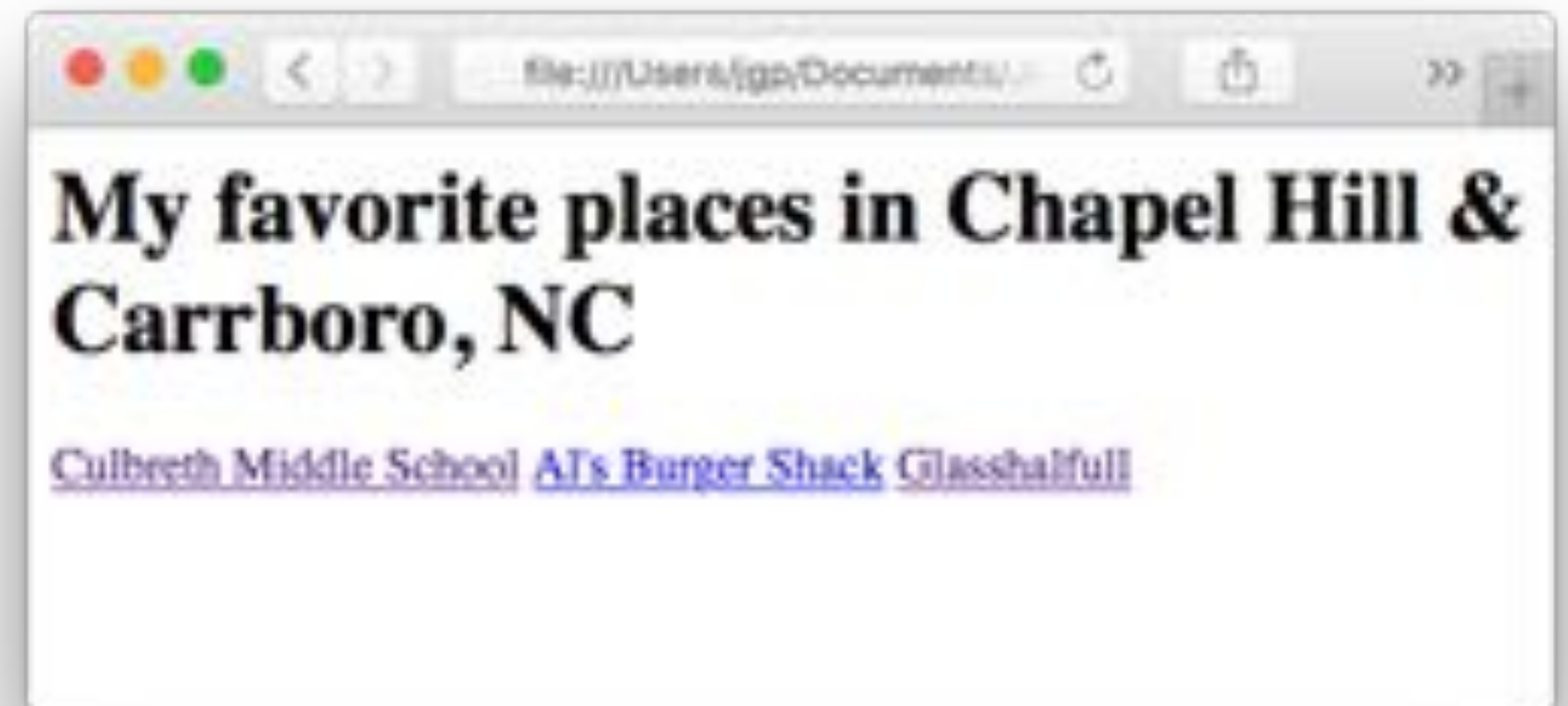
And the result is...



EXERCISE #3

- Create a page with links to your favorite places in Chapel Hill & Carrboro

And the result is...



HOW DID I BUILD THIS PAGE?

```
<html>
<h1>My favorite places in Chapel Hill & Carrboro, NC</h1>
<a href="http://cms.chccs.k12.nc.us">Culbreth Middle School</a>
<a href="http://www.alsburgershack.com">Al's Burger Shack</a>
<a href="http://www.glasshalfullcarrboro.com">Glasshalfull</a>
</html>
```

A new element:

h1 to h6 define heading 1 to heading 6

**TIME FOR A NICER
EXAMPLE!**



LISTS WITH UL AND LI

```
<html>
```

```
<h1>My favorite places in Chapel Hill & Carrboro, NC</h1>
```

```
<h2>Schools</h2>
```

```
<ul>
```

```
<li><a href="http://cms.chccs.k12.nc.us">Culbreth Middle School</a></li>
```

```
</ul>
```

```
<h2>Restaurants</h2>
```

```
<ul>
```

```
<li><a href="http://www.alsburgershack.com">Al's Burger Shack</a></li>
```

```
<li><a href="http://www.glasshalfcarrboro.com">Glasshalf</a></li>
```

```
</ul>
```

```
</html>
```

REFERENCES, GO FURTHER

- W3Schools, <http://www.w3schools.com/>
- World Wide Web Consortium (W3C) (Advanced), <https://www.w3.org/>

THANK YOU!

If you have question, feel free to send me an e-mail at jgp@jgp.net

Or, after you turn 13, <http://facebook.com/jgperrin>

