CODEFIRST:Girls

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Code First: Girls

Intro to coding and the web

So…what is the internet and the world wide web?

Websites?

HTTP?

w.w.w.?

FTP?

Browsers?

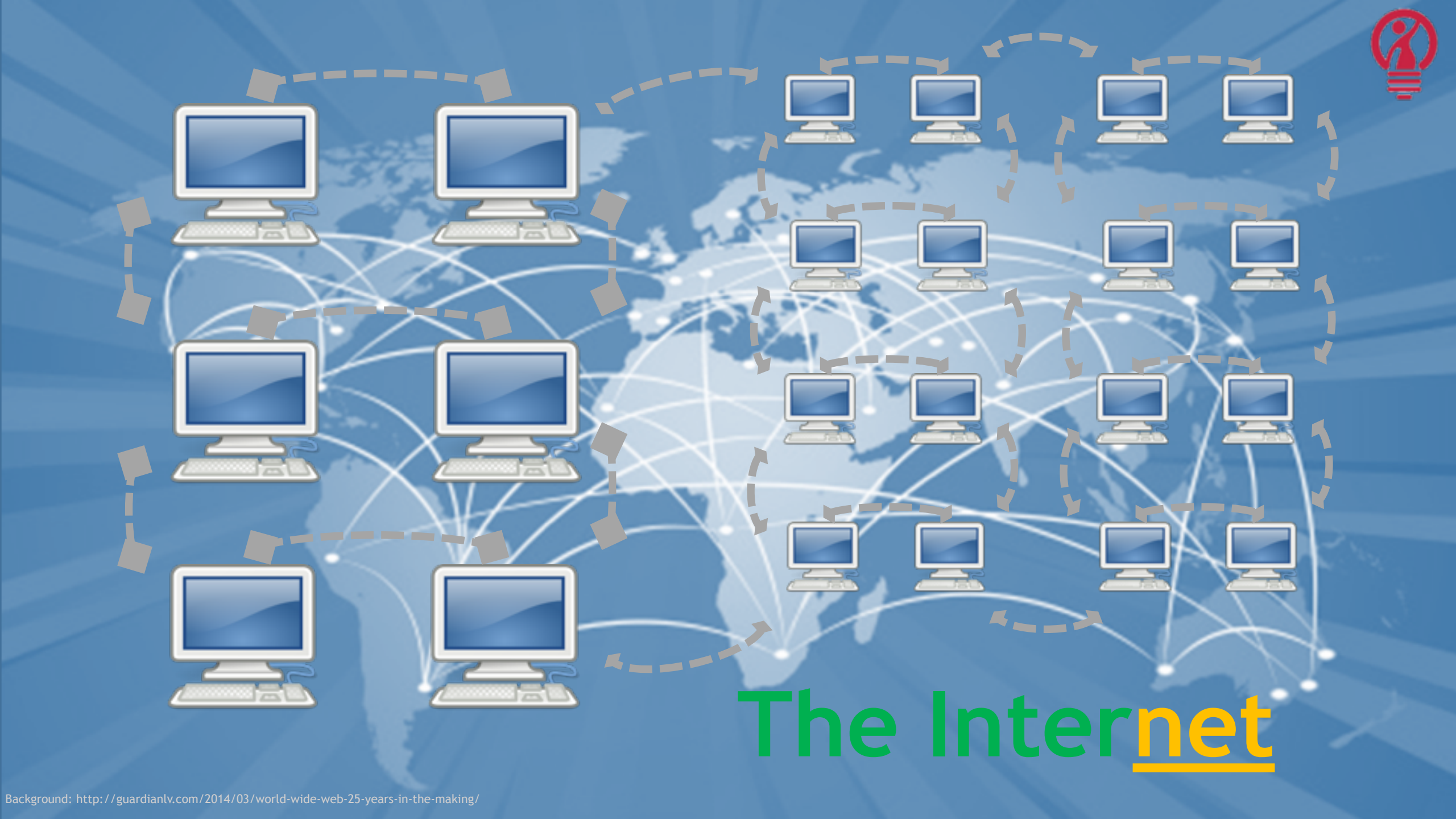
Servers?

Image: http://online-passport.info/compbas/?page_id=54

Network

One computer

Another computer



Background: http://guardianlv.com/2014/03/world-wide-web-25-years-in-the-making/

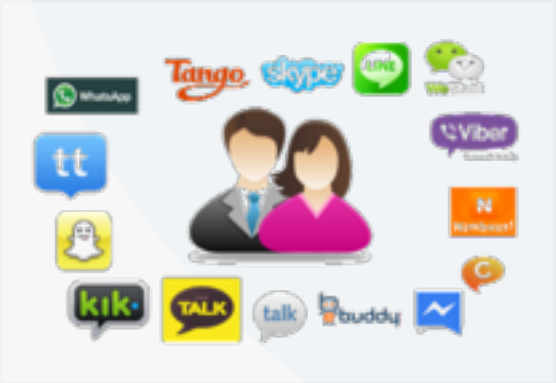
The internet includes…

The World wide web

Live chat

Peer to Peer/groups

Instant messaging



FTP (File Transfer Protocol)

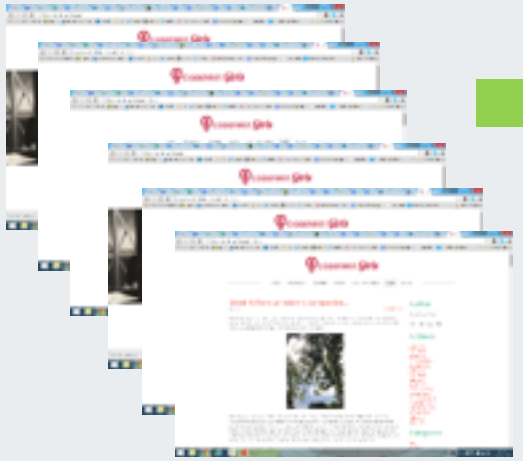
Images:
http://velocityagency.com/the-world-of-web-design http://www.eteknix.com/china-imposes-new-restrictions-on-instant-messaging-and-first-detained http://www.tmogroup.asia/creative-ways-increase-ecommerce-customer-engagement/
https://play.google.com/store/apps/details?id=com.theolivetree.ftpserver http://www.globoforce.com/how-it-works/superior-innovation/

So what is the World wide web…?

Web page

More Web pages

Website



Hyperlink

Web pages are hosted on servers (can be a computers/ devices/ networks)

Source:
http://velocityagency.com/the-world-of-web-design

http://webfoundation.org/about/vision/history-of-the-web/

http://blog.cambrionix.com/history-of-the-world-wide-web/

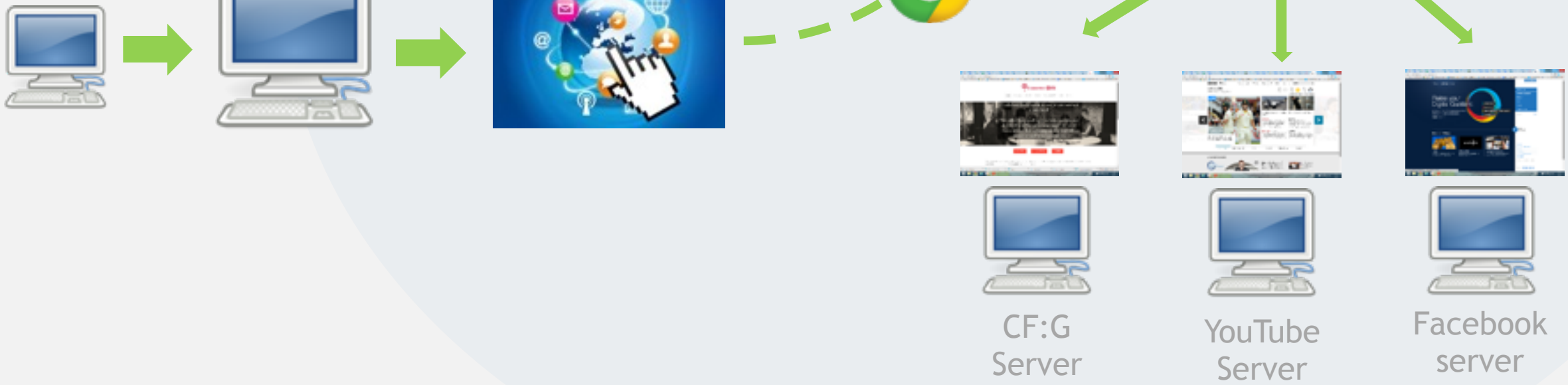
How is the web connected?

Your computer

Your network provider

The Internet

An internet browser



Source:
http://velocityagency.com/the-world-of-web-design https://en.wikipedia.org/wiki/Google_Chrome

How did the world wide web begin?

Sir Tim Berners-Lee

Press PLAY

Images:
http://velocityagency.com/the-world-of-web-design
http://webfoundation.org/about/vision/history-of-the-web/

What is http?

Source:
http://www.vpnanswers.com/http-https/

What happens when you when you enter a website into your browser?

Press PLAY

https://www.youtube.com/watch?v=jS-535UqCCk

What is coding and what does it have to do with the internet?

Source:
http://www.thetakeaway.org/story/women-computer-science-stem-education/

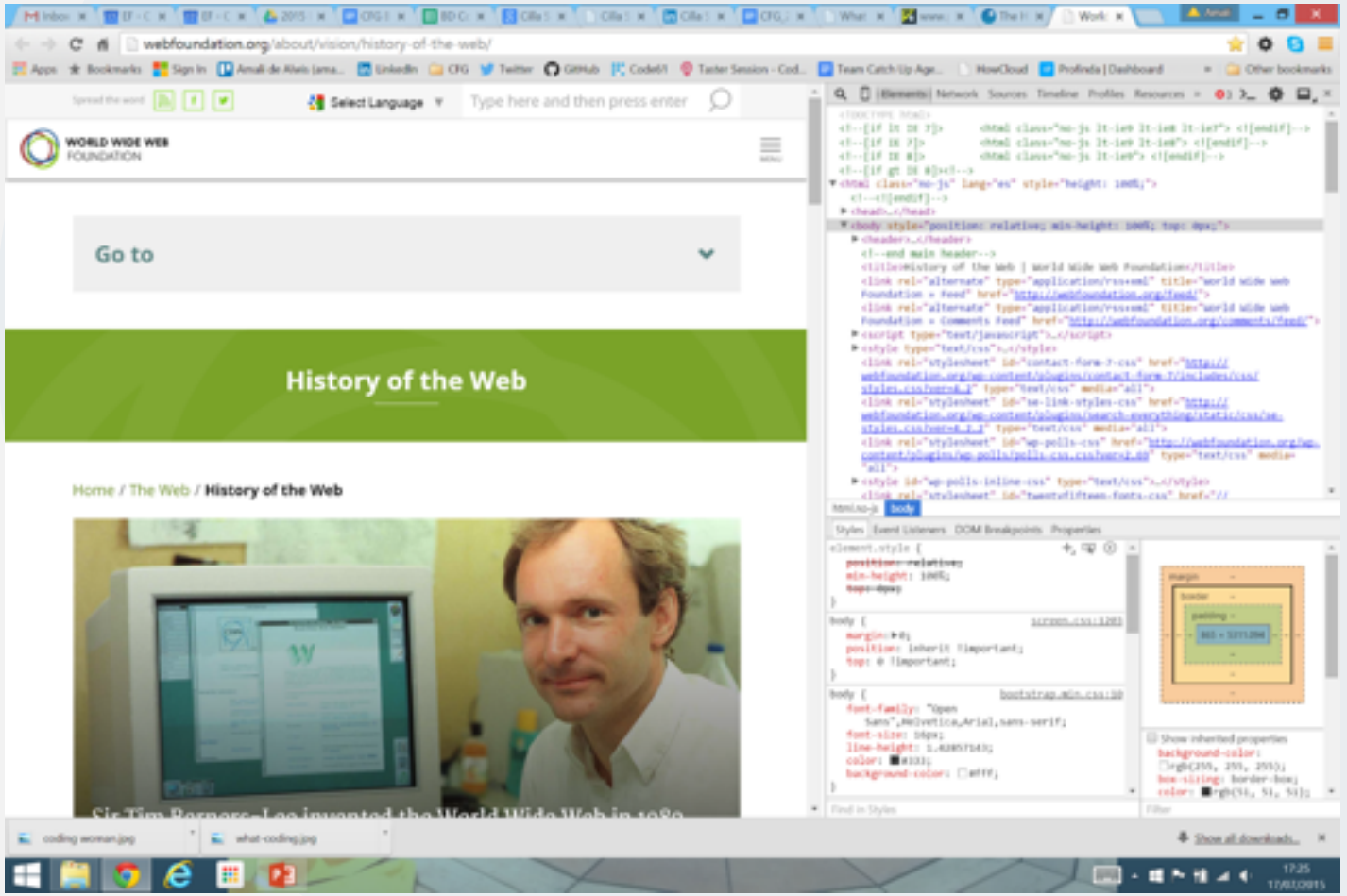
How do I make a webpage?

HTML
HyperText Markup Language encodes the information that is sent back from the server.

CSS
Cascading Style Sheets tell your browser how to display that information.

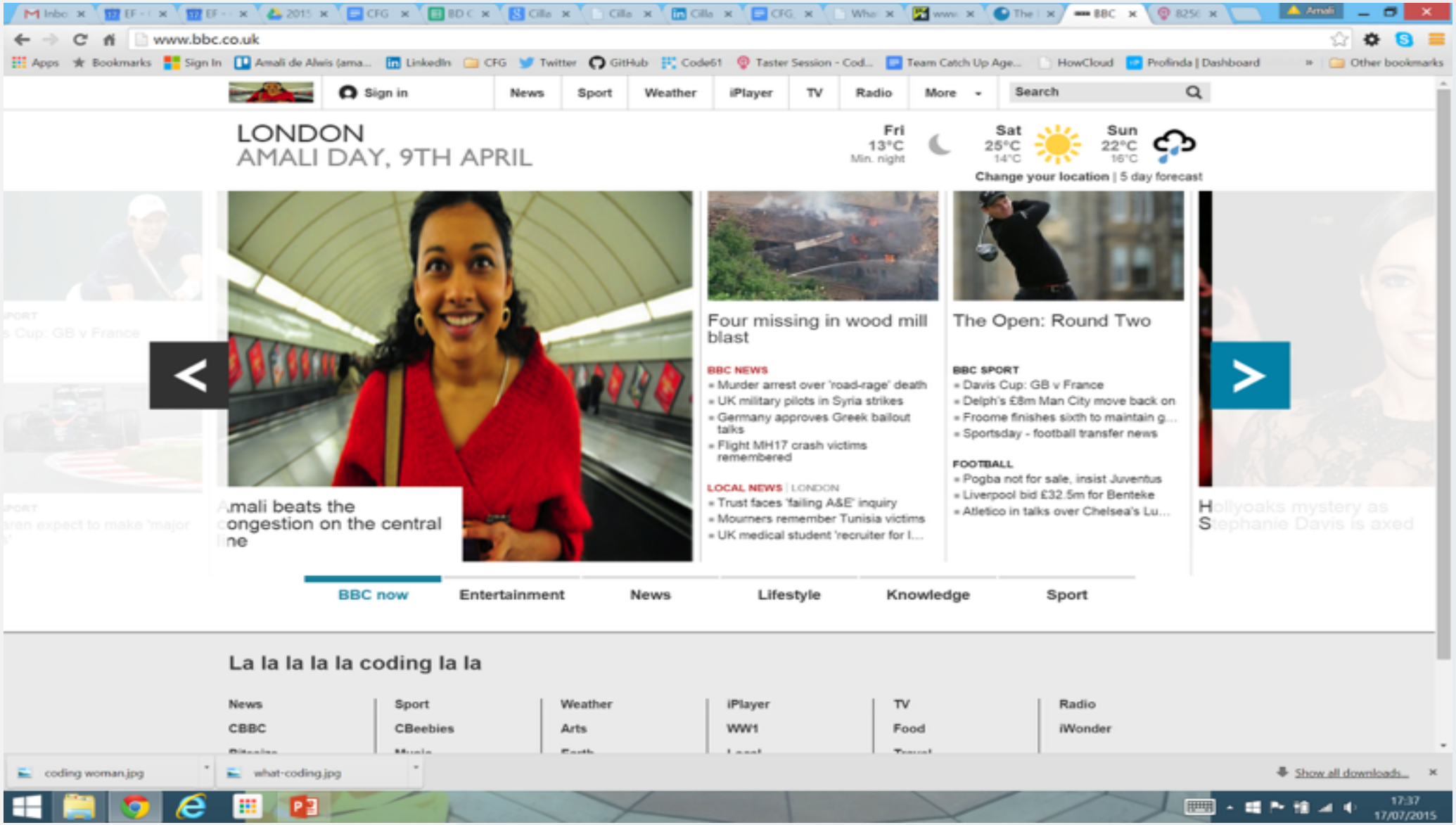
Javascript
Javascript is a programming language that can be used to provide client-side interactivity.

So what does HTML code look like?



Hack the BBC!

1. Open this page in Google Chrome
2. View the page source by doing one of the following:
    - View > Developer > View Source
    - Tools > View Source
3. Open the developer tools by doing one of the following:
    - View > Developer > Developer Tools
    - More Tools > Developer Tools
4. Use the magnifying glass in the bottom left to hover over bits of the page and find the related HTML.
5. Hover over the HTML code in the developer tools box and watch as different parts of the page are highlighted.
6. Try changing some of the CSS on the right hand side. To undo any changes just refresh the page.
7. Have a look on the Resources tab. See if you can find the CSS, javascript and image files used on this page.
8. Visit a few of your favourite websites and repeat this process.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Sat 25°C 14°C
Sun 22°C 16°C
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The Open: Round Two
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UK military pilots in Syria strikes
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