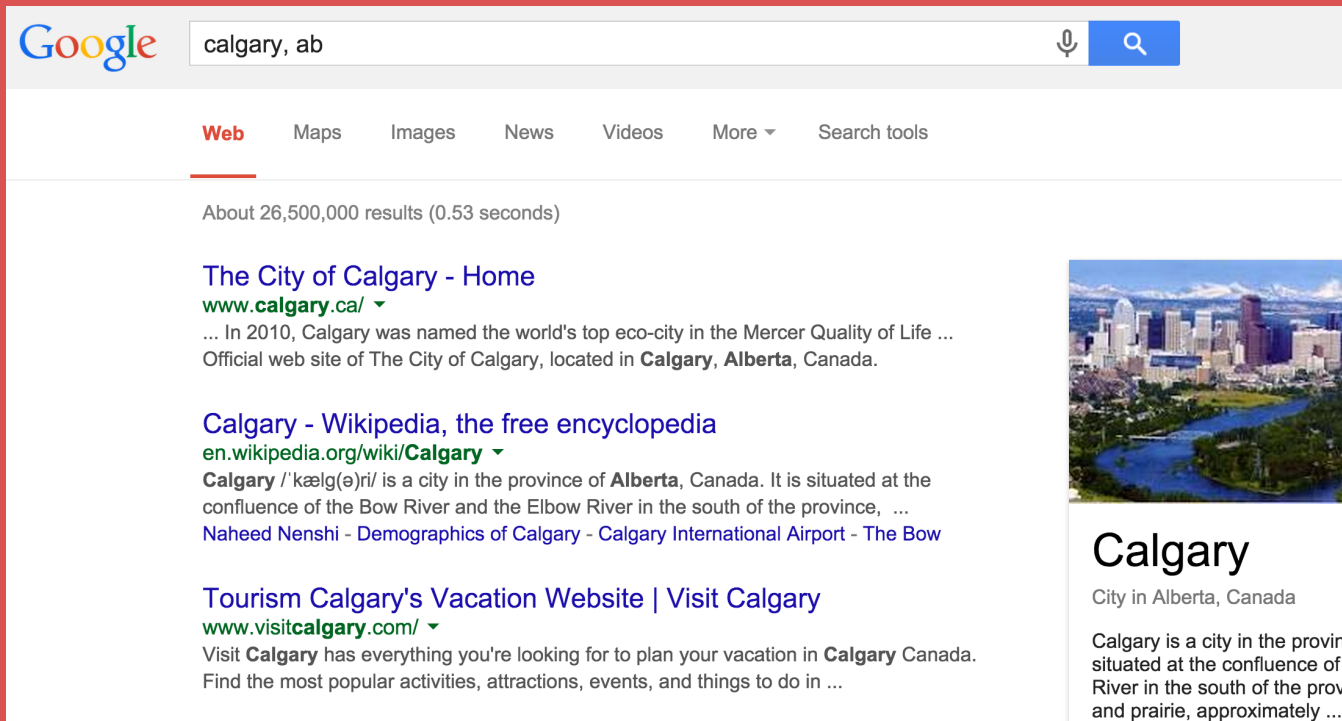


# Fundamentals

## Day 1

Introduction to HTML

# How do webpages work?



The screenshot shows a Google search interface with the query "calgary, ab" entered in the search bar. The search results page displays several links and a knowledge panel on the right. The first result is "The City of Calgary - Home" with the URL "www.calgary.ca/". The second result is "Calgary - Wikipedia, the free encyclopedia" with the URL "en.wikipedia.org/wiki/Calgary". The third result is "Tourism Calgary's Vacation Website | Visit Calgary" with the URL "www.visitcalgary.com/". The knowledge panel on the right features a photograph of the Calgary skyline and the Bow River, with the title "Calgary" and the subtitle "City in Alberta, Canada". Below the image, it states: "Calgary is a city in the provin situated at the confluence of River in the south of the prov and prairie, approximately ...".

Google

calgary, ab

Web Maps Images News Videos More Search tools

About 26,500,000 results (0.53 seconds)

**The City of Calgary - Home**  
[www.calgary.ca/](http://www.calgary.ca/) ▾  
... In 2010, Calgary was named the world's top eco-city in the Mercer Quality of Life ...  
Official web site of The City of Calgary, located in **Calgary, Alberta**, Canada.




**Calgary - Wikipedia, the free encyclopedia**  
[en.wikipedia.org/wiki/Calgary](http://en.wikipedia.org/wiki/Calgary) ▾  
**Calgary** /ˈkælg(ə)ri/ is a city in the province of **Alberta**, Canada. It is situated at the confluence of the Bow River and the Elbow River in the south of the province, ...  
[Naheed Nenshi](#) - [Demographics of Calgary](#) - [Calgary International Airport](#) - [The Bow](#)

**Tourism Calgary's Vacation Website | Visit Calgary**  
[www.visitcalgary.com/](http://www.visitcalgary.com/) ▾  
Visit **Calgary** has everything you're looking for to plan your vacation in **Calgary** Canada.  
Find the most popular activities, attractions, events, and things to do in ...

**Calgary**  
City in Alberta, Canada

Calgary is a city in the provin situated at the confluence of River in the south of the prov and prairie, approximately ...

# Using boxes!

calgary, ab

Web

Maps

Images

News

Videos

More ▾

Search tools

About 26,500,000 results (0.53 seconds)

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Find the most popular activities, attractions, events, and things to do in ...



## Calgary

City in Alberta, Canada

Calgary is a city in the provin  
situated at the confluence of  
River in the south of the prov  
and prairie, approximately ...

# Different types of Boxes (Elements)

Documents have a number of boxes (“elements”), such as: **header, footer, body, section, paragraph**, etc.

Elements are defined using tags.

Without tags, you just have plain text.

# Tags

Tags are designated with a word inside of <> symbols.

Tags wrap around content. Open and close.

```
<p>This is some text.</p>
```

# Common tags

The following tags are very common and are some of what you'll learn today:

`<head>`

`<nav>`

`<p>`

`<body>`

`<footer>`

`<section>`

`<article>`

`<aside>`

`<header>`

# Nesting

You will have tags inside of tags inside of tags inside of tags.

*Tagception!*

Web pages are built using boxes. Boxes (elements) can be inside of boxes.

Therefore, tags are nested.

# Major sections

Every webpage has two major sections that define its behaviour and appearance.

**<head>** - You don't see the content in here. It defines rules for the browser for the page.

**<body>** - Anything in here is displayed in the browser window. Follows rules set in the <head>

**<html>** - This wraps around everything, both <head> and <body>.



# Skeleton

`<!doctype html>`

`<html>`

`<head>`

`</head>`

`<body>`

`</body>`

`</html>`

# Sections

Need to be able to break the body of a page into separate sections

No problem!

```
<section>...</section>
```

# Semantic tags

The name of the tag you use indicates what kind of content is going to be inside of it. All of them are just invisible blocks and behave similarly.

What do you think would be inside these tags?

`<header></header>`

`<footer></footer>`

`<nav></nav>`

`<aside></aside>`

# Area vs. Style

Some tags define area of a page, like `<section>` or `<aside>`.  
Some tags will affect the default style of their content.

```
<h1>Big text</h1>
```

```
<h2>Still big</h2>
```

```
<h3>Not so big now, are ya?</h3>
```

```
<h4>I'm a header, really!</h4>
```

```
<h5>Can you even see me?</h5>
```

```
<h6>Everyone else has all the fun.</h6>
```

# Paragraph

`<p>Text</p>`

Breaks blocks of text into paragraphs, with margins above and below.

Browser has built-in style rules.

# Document Types

So that the browser knows what rules to use, what styles to apply, we use Document Types (or doctypes) at the top of our HTML pages. These are very important.

```
<!doctype html>
```

Congratulations, you just wrote HTML5.



# Fundamentals

## Day 1

Source Control & Github

# Version Control

- Why do we need it?
- Who uses them?
- What is a repository?



# Git ~ Brief Intro

- Originally written by Linus Torvalds in 2005
- Made to support Linux kernel development
- Distributed instead of Centralized
- 30% adoption (2013)
- Current stable version is 2.2

# Git ~ The Good

- Super fast
- Super powerful
- Well adopted
- Open-source
- Well maintained

# Git ~ The Bad

- Somewhat steep learning curve (hard to master)
- Complicated commands
  - A lot of commands to learn
  - Some commands have multiple uses
  - Commands have numerous arguments
  - Command names sometimes not intuitive

# Enter: Github App

# Github vs Git

# Demo