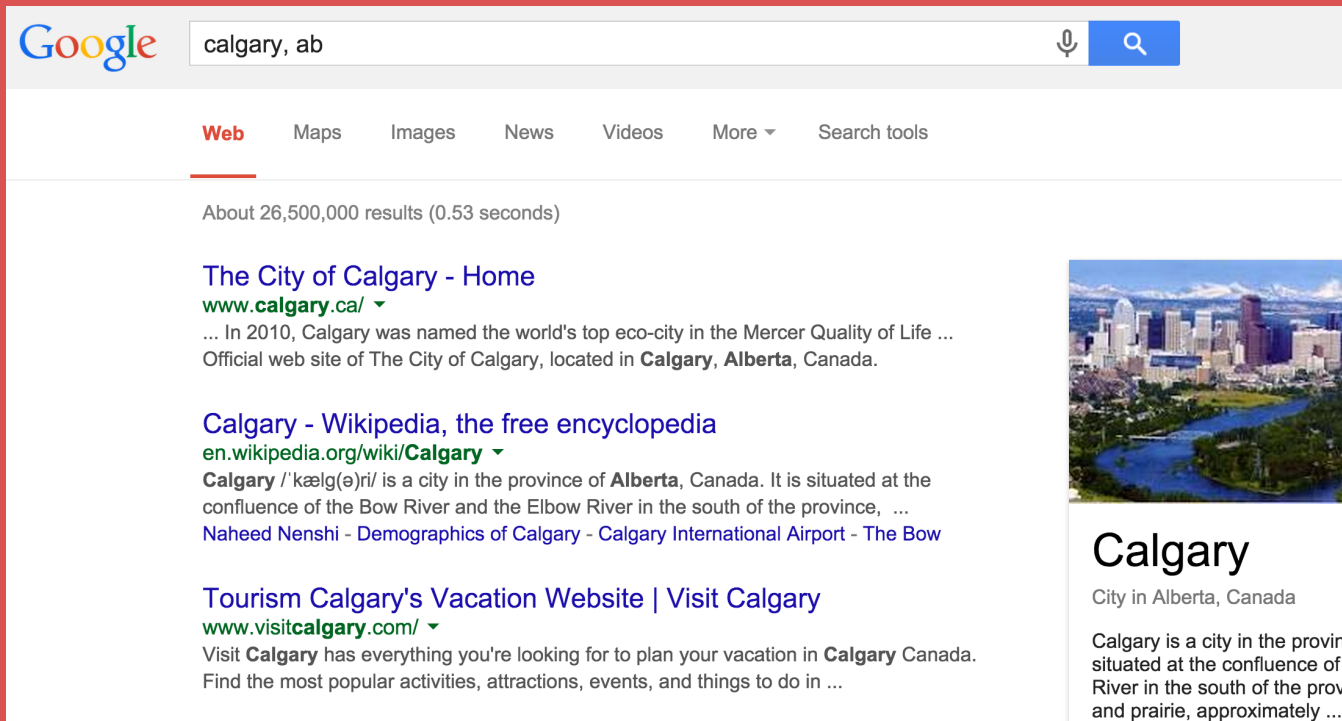


Fundamentals

Day 1

Introduction to HTML

How do webpages work?



The screenshot shows a Google search interface. The search bar contains the text "calgary, ab". Below the search bar, there are tabs for "Web", "Maps", "Images", "News", "Videos", "More", and "Search tools". The "Web" tab is selected. The search results show "About 26,500,000 results (0.53 seconds)". 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/". On the right side, there is a knowledge panel for "Calgary" showing a cityscape image and text describing its location in Alberta, Canada.

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/ ▾
... 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 ▾
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/ ▾
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

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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 essentially just boxes and behave similarly.

What do you think would be inside these tags?

```
<header></header>
```

```
<footer></footer>
```

```
<nav></nav>
```

```
<aside></aside>
```

Paragraph

`<p>Text</p>`

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

Browser has built-in style rules.

Text Style

`<p>This is very important!</p>`

Format parts of text by wrapping it in tags like ``, `<i>`, `` or ``.

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>
```

Document Types

We use Document Types (or doctypes) at the top of our HTML pages, so the browser knows what rules to use, what styles to apply, 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 it?
- 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