Building on HTML5: Optimizing for Data, Communication and Offline Apps

INTRODUCTION

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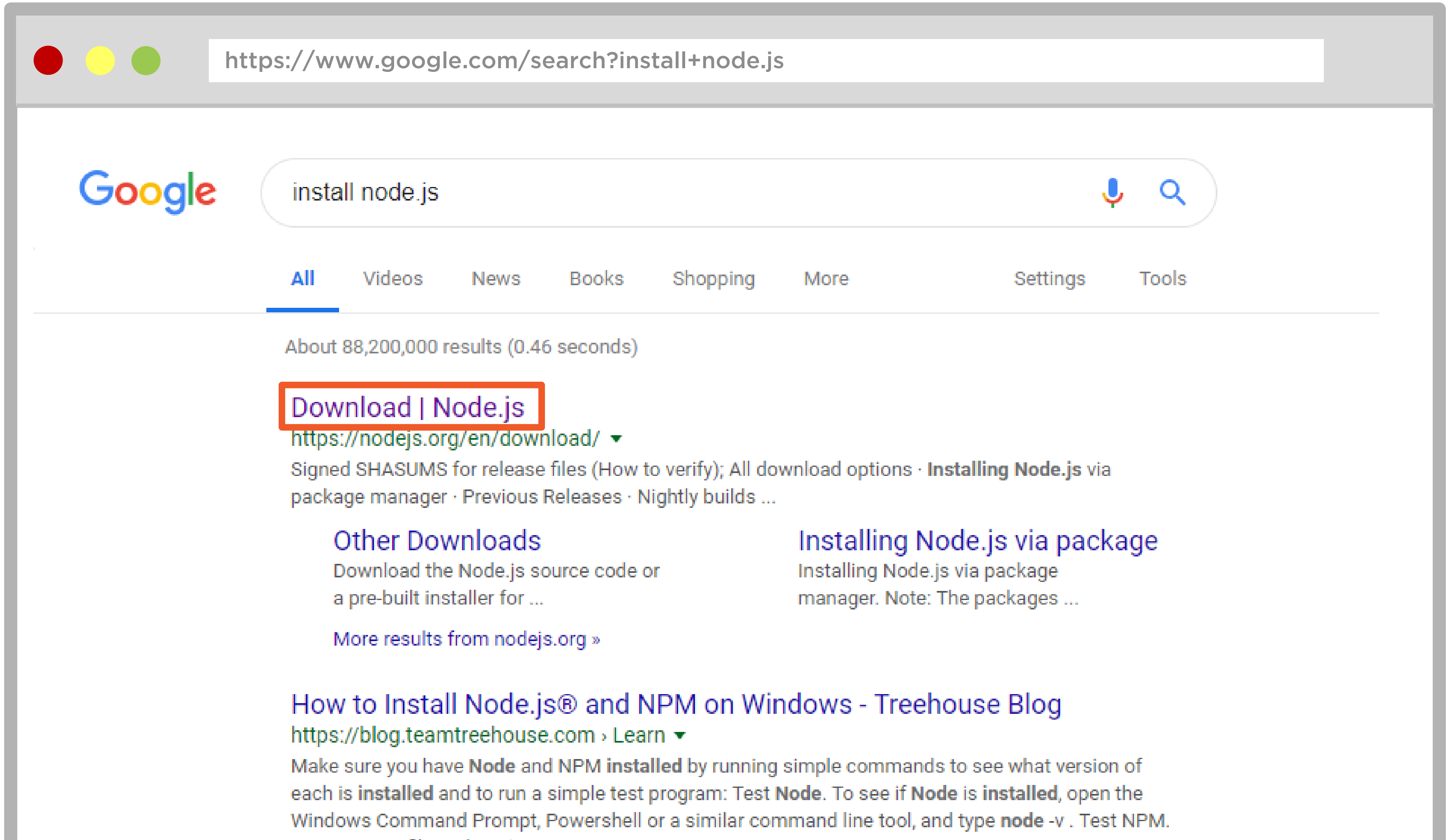
Demo

Samples Demo

Environment Setup

Install Node.js



https://www.google.com/search?install+node.js

install node.js

About 88,200,000 results (0.46 seconds)

Download | Node.js
https://nodejs.org/en/download/ ▾
Signed SHASUMS for release files (How to verify); All download options · **Installing Node.js** via package manager · Previous Releases · Nightly builds ...

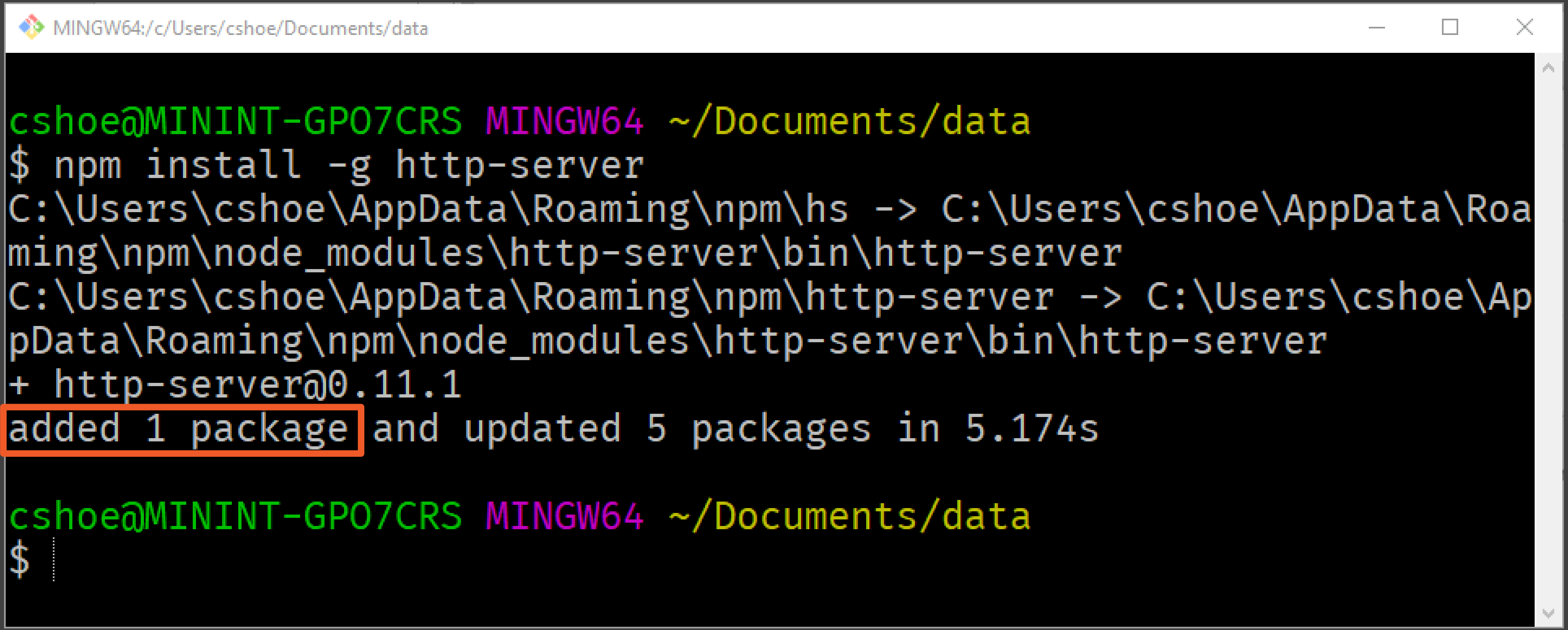
Other Downloads
Download the Node.js source code or a pre-built installer for ...

Installing Node.js via package
Installing Node.js via package manager. Note: The packages ...

More results from nodejs.org »

How to Install Node.js® and NPM on Windows - Treehouse Blog
https://blog.teamtreehouse.com › Learn ▾
Make sure you have **Node** and NPM **installed** by running simple commands to see what version of each is **installed** and to run a simple test program: Test **Node**. To see if **Node** is **installed**, open the Windows Command Prompt, Powershell or a similar command line tool, and type **node** -v . Test NPM.

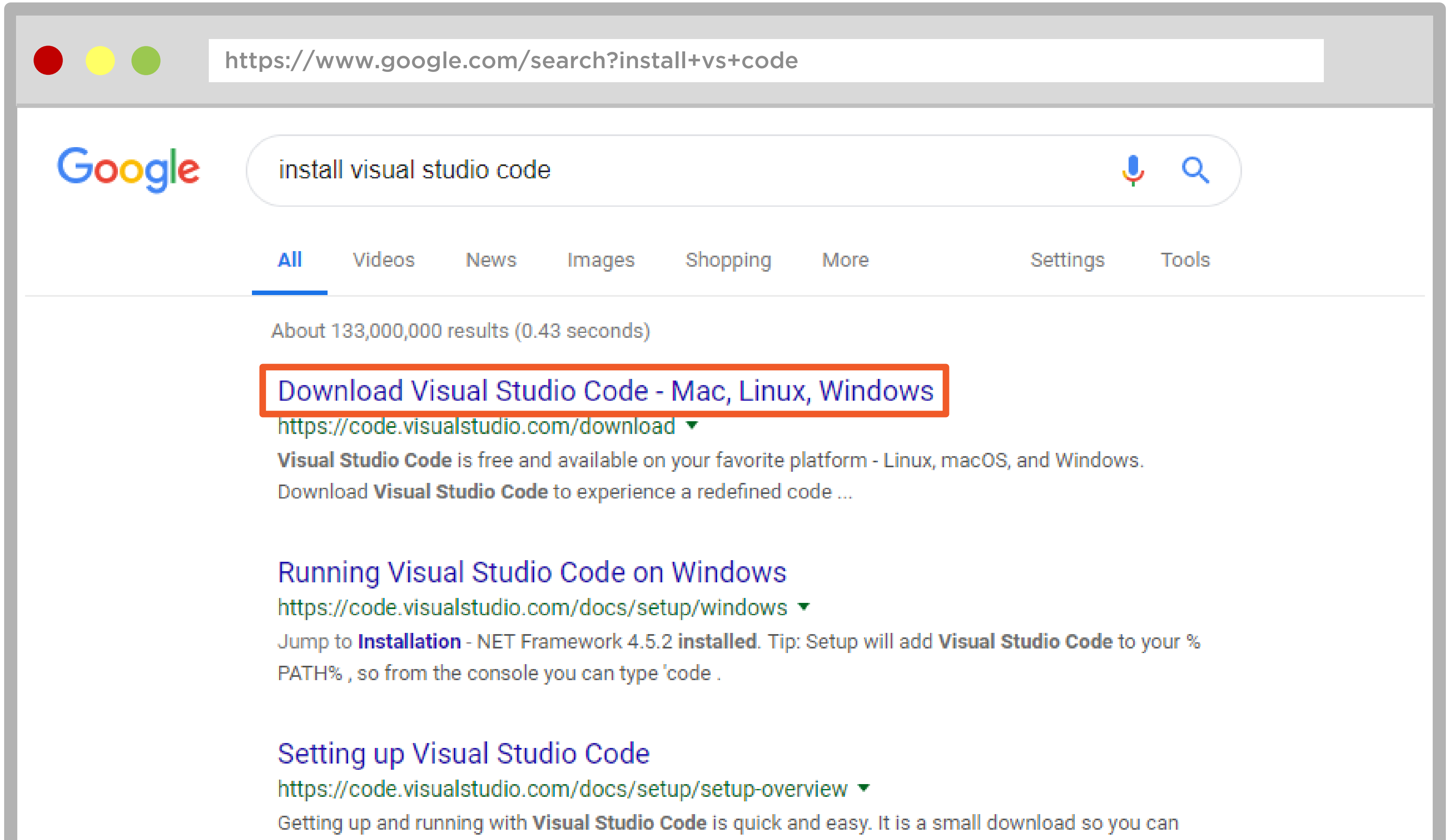
Install HTTP Server



```
cshoe@MININT-GPO7CRS MINGW64 ~/Documents/data
$ npm install -g http-server
C:\Users\cshoe\AppData\Roaming\npm\hs -> C:\Users\cshoe\AppData\Roa
ming\npm\node_modules\http-server\bin\http-server
C:\Users\cshoe\AppData\Roaming\npm\http-server -> C:\Users\cshoe\Ap
pData\Roaming\npm\node_modules\http-server\bin\http-server
+ http-server@0.11.1
added 1 package and updated 5 packages in 5.174s

cshoe@MININT-GPO7CRS MINGW64 ~/Documents/data
$
```

Install Visual Studio Code



https://www.google.com/search?install+vs+code

install visual studio code

About 133,000,000 results (0.43 seconds)

Download Visual Studio Code - Mac, Linux, Windows
https://code.visualstudio.com/download
Visual Studio Code is free and available on your favorite platform - Linux, macOS, and Windows. Download **Visual Studio Code** to experience a redefined code ...

Running Visual Studio Code on Windows
https://code.visualstudio.com/docs/setup/windows
Jump to **Installation** - NET Framework 4.5.2 **installed**. Tip: Setup will add **Visual Studio Code** to your % PATH% , so from the console you can type 'code .

Setting up Visual Studio Code
https://code.visualstudio.com/docs/setup/setup-overview
Getting up and running with **Visual Studio Code** is quick and easy. It is a small download so you can

JavaScript Syntax

JavaScript Syntax

USING ARROW FUNCTIONS

```
function log() {
  console.log('Hello, named function!');
}
```

Using Arrow Functions

```
function log() {
  console.log('Hello, named function!');
}
```

Using Arrow Functions

```
const log = () => {
  console.log('Hello, arrow function!');
};
```

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const log = () => {
  console.log('Hello, arrow function!');
};
```

Using Arrow Functions

```
const log = message => {
  console.log(message);
};
```

Using Arrow Functions

```
const log = (message, data) => {
  console.log(message, data);
};
```

Using Arrow Functions

JavaScript Syntax

USING ASYNC/AWAIT

```
getData
  .then(data => {
    console.log(data);
  })
  .catch(error => {
    console.log(error);
  });
```

Promises

```
getData
  .then(data => {
    console.log(data);
  })
  .catch(error => {
    console.log(error);
  });
```

Promises

```
getData
   .then(data => {
     console.log(data);
   })
   .catch(error => {
     console.log(error);
   });
```

Promises

```
const showData = async () => {
  const data = await getData();
  console.log(data);
};
```

Using async/await

```
const showData = async () => {
  const data = await getData();
  console.log(data);
};
```

Using async/await

```
const showData = async () => {
  const data = await getData();
  console.log(data);
};
```

Using async/await

```
const showData = async () => {
  try {
    const data = await getData();
    console.log(data);
  } catch (error) {
    console.log(error);
  }
};
```

Using async/await

Promise

```
const showData = () => {
  getData
    .then(data => {
      console.log(data);
    }).catch(error => {
      console.log(error);
    });
}
```

async/await

```
const showData = async () => {
  try {
    const data = await getData();
    console.log(data);
  } catch (error) {
    console.log(error);
  }
};
```

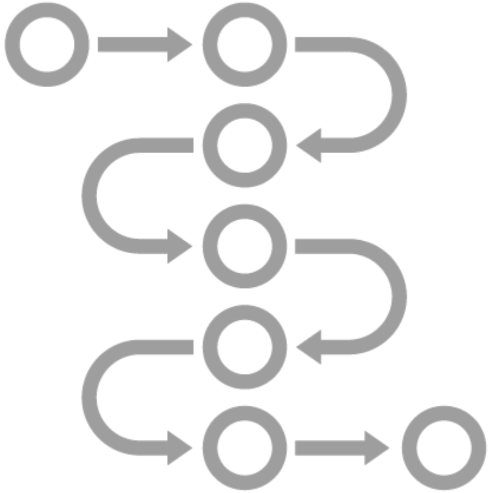
```
showData().then(data => {
  console.log(data);
});
```

Using async/await

```
showData();
```

Using async/await

Next Module



Saving Data in the Browser

Course overview

Setup environment

JavaScript syntax review