Internet Basics

Objectives

- Understand how the internet works(high level)
- Understand the difference between front-end and back-end
- View the HTML on any given website

How the Internet Works

Request
&
Response

1. HTTP request: ENTER: asking for content of the page
2. Request is made to a correct server
3. content seperated into multiple packets to send back

http:// www.udemy.com/courses

Finding the Right Address

www.udemy.com ➡ 23.235.47.175

your browser knows your unique address

- Your query is submitted to your ISP
- Within your ISP, the DNS takes the Domain name and turns it into an IP address

Going to that Address

www.udemy.com ➔ 23.235.47.175

HTTP request

- A request is sent to the desired IP address via HTTP
- Your request finds the fastest path possible path to the server with the specified IP
- This is not a direct journey. It requires hoping from server to server until we arrive

Udemy Server Responds

www.udemy.com → 23.235.47.175

what content to send back?

- The requested server figures out exactly what we're asking for(/courses)
- The server builds us the right content, often pulling information from database
- The server responds with any combination of HTML, CSS, and JavaScript
- And then...

```html
<!doctype html>

<html lang="en">
<head>
    <link rel="stylesheet" media="all" type="text/css"
        href="https://www.udemy.com/staticx/udemy/css/discover.css?v=15c9992d665b574e77492fa73e89b3f551610fc1" />

                <meta name="apple-itunes-app" content="app-id=562413829">

                <meta name="google-play-app" content="app-id=com.udemy.android">

    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
    <meta http-equiv="Content-Language" content="en">
    <title>                Online Courses: 30,000+ On-demand Classes from Udemy                </title>
    <meta name="title" content="Online Courses: 30,000+ On-demand Classes from Udemy"/>
    <meta name="description" content="Udemy is the world&#039;s largest destination for online courses. Browse the featured courses on Udemy and start learning a new skill
today."/>
    <link rel="icon" href="/favicon-new-32x32.ico" type="image/x-icon" />
    <link rel="image_src" href="https://www.udemy.com/staticx/udemy/images/v4/logo-green.svg" />
    <link href="https://plus.google.com/+UdemySF" rel="publisher" />
    <link href="https://plus.google.com/114051070796947901818" rel="publisher" />


    <meta property="fb:app_id" content="313137469260" />

    <meta name="medium" content="mult" />

    <meta property="og:type" content="video_lecture" />
    <meta property="og:url" content="https://www.udemy.com/courses/" />
    <meta property="og:title" content="Online Courses: 30,000+ On-demand Classes from Udemy" />
    <meta property="og:description" content="Udemy is the world&#039;s largest destination for online courses. Browse the featured courses on Udemy and start learning a new
skill today." />
    <meta property="og:image" content="" />
    <meta property="og:site_name" content="Udemy" />
    <meta property="og:locale" content="en_US" />

    <meta name="twitter:card" content="summary" />
    <meta name="twitter:url" content="https://www.udemy.com/courses/" />
    <meta name="twitter:title" content="Online Courses: 30,000+ On-demand Classes from Udemy" />
    <meta name="twitter:description" content="Udemy is the world&#039;s largest destination for online courses. Browse the featured courses on Udemy and start learning a new
skill today." />
    <meta name="twitter:image" content="" />
    <meta name="twitter:site" content="@udemy" />
```


☰ Browse Courses   Search for Courses   **udemy**   Become an Instructor | My Courses   🔔

- My Courses
- Development
- Business
- IT & Software
- Office Productivity
- Personal Development
- Design
- Marketing
- Lifestyle
- Photography
- Health & Fitness
- Teacher Training
- Music
- Academics
- Language
- Test Prep
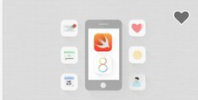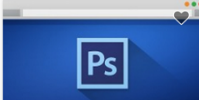
Because you searched for *"rob percival"*   View All ⊕ < >

The Complete iOS8 and Swift Course: Learn by Building 15...
Rob Percival, Web Developer And Teacher
★★★★★ (3976)
$199

Learn Photoshop, Web Design & Profitable Freelancing
Barin Cristian Doru, Made over $50,000 by working in Photosho...
★★★★★ (477)
$300

The Complete iOS 9 Developer Course - Build 18 Apps
Rob Percival, Web Developer And Teacher
★★★★★ (593)
$199

YOUTUBE: How I Make $2000 A Month on YouTube With No...
Alun Hill, Business Strategist, TV and Radio Broadcaster, Writer
★★★★★ (414)
$250

Students who viewed *"IP Addressing and Subnetting "* also viewed   View All ⊕ < >

Learn The Basics of Ethical Hacking and Penetration...
Mohamed Ramadan, Hacker, Trainer and TV Guest. Thanked b...
★★★★☆ (302)

Learn PHP Fundamentals From Scratch
Eduonix Learning Solutions, The Knowledge Edge
★★★★☆ (132)

So You Want to be a Network Engineer?
Paul Browning, Cisco Engineer and Internet Entrepreneur
★★★★☆ (52)

Tech Basics: Cables & Connectors
Chet Davis, Your Technology Tutor
★★★★☆ (185)

View Page Source

- We can view the underlying HTML, CSS, and Javascript on any webpage
- In Chrome, right click and select "View Page Source"
- Or select View > Developer > View Source
- Or use the shortcut COMMAND + OPTION + U

control + u