

Instructor **Bekir Taner Dincer Teaching Assistant Selahattin Aksoy**



MUĞLA SITKI KOÇMAN ÜNİVERSİTESİ COMPUTER ENGINEERING 2022 - Fall

Introduction

Content, Logistics, Grading, etc.



MSKU CENG CENG-3507 Web Development & Programming

What this course is about?

"Front-End Development"

Front-End = User interface Web Pages & Applications.

Programming Languages HTML, CSS, and JavaScript.



Hyper Text Markup Language

- create web pages



Cascaded Style Sheets

- style web pages



JavaScript

- interactive web pages



MSKU CENG CENG-3507 Web Development & Programming

About the Class - Class Web-Access

- dys.mu.edu.tr, the official LMS site of MSKÜ
 - Quizzes & Exams
 - Lecture Notes
 - Forums
 - Online Guides, Reading Assignments,
 - Any materials related to the course.
- Office-365: MS Teams, "CENG 3507–2022" Team.
 - Homework & Projects
 - Q&A's sessions, Collaborative Studies/Works
 - You can access it by your account for posta.mu.edu.tr



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Logistics & Lecture Flow

- Course hours
 - Thu: 13:30 17:10 (4 Lectures)
 - Wed: 13:30 14:10 (1 Lecture Recitation/Office Hours)
- Location
 - Classroom: B3B08-Lab
- Lecture Flow
 - 40mins per lecture,
 - Lecture -> Lab -> [Quiz] sessions per lecture.



Evaluation & Grading

- Grading
 - 40% Midterm, (Mostly HTML & CSS)
 - 10% Quizzes + Class-Work
 - 10% Homeworks
 - 20% Project 1
 - 10% Written exam.
 - 60% Final
 - 10% Quizzes + Class-Work
 - 10% Homeworks
 - 30% Project 2
 - 30% Written exam.



Academic Integrity & Ethics

- Don't **copy-paste** codes in projects from the internet. Doing so, **will result in a 0 score**.
- This class encourages the use of templates and collaboration, as long as you clearly indicate (give reference to) when you use external resources, and be sure the main part of the work is your own.



World Wide Web (WWW)

History, Internet Protocols for WWW, etc.



The Internet – Networks of Networks

Invented in 1969

Defense Advanced Research Projects Agency (DARPA)

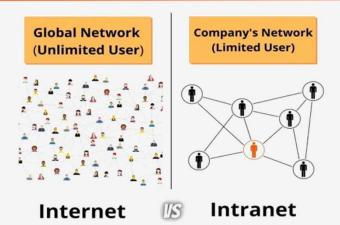


- The Internet began as a network to connect computers at research facilities and universities.
- ➤ Messages travel from source to destination by **multiple routes**, or paths.
- This configuration allows the network to function even if parts of it were broken or destroyed.



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Internet vs Intranets



Internet

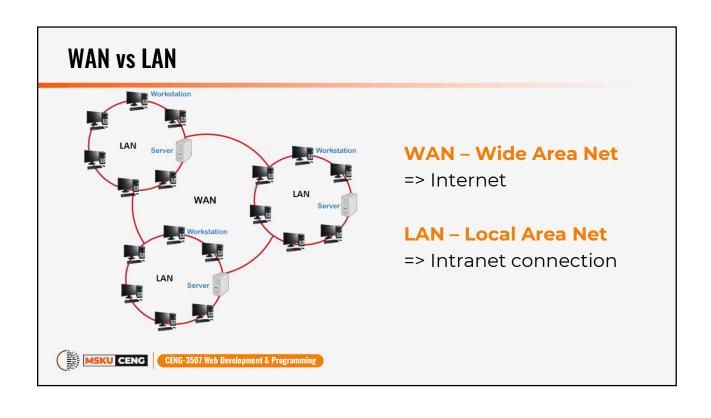
The interconnected network of networks.

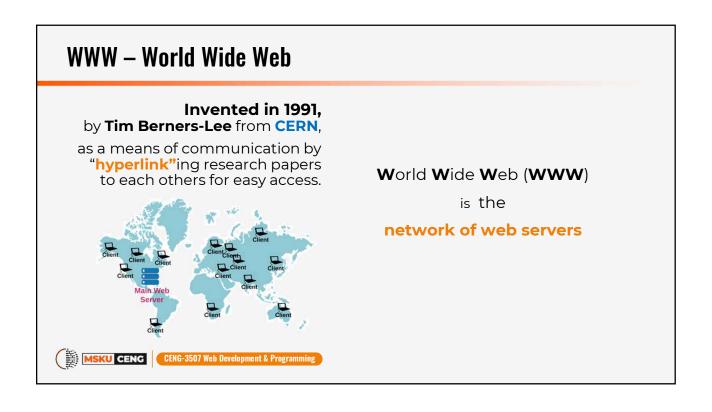
Intranet

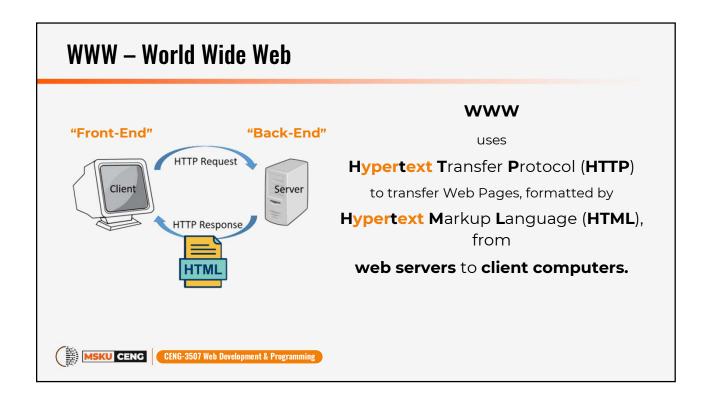
The networks of private groups of individual users. e.g., University networks, company networks, etc.

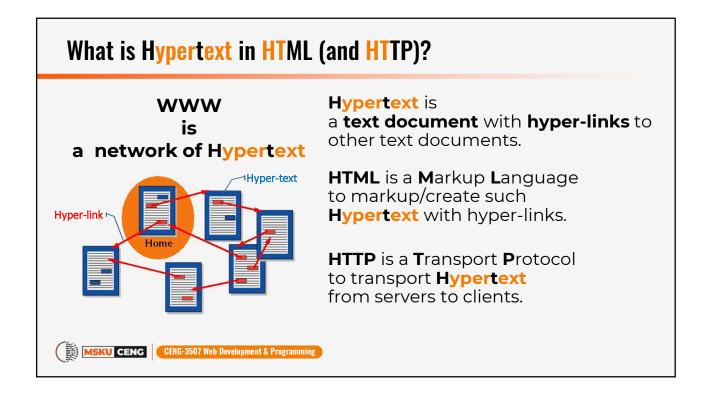


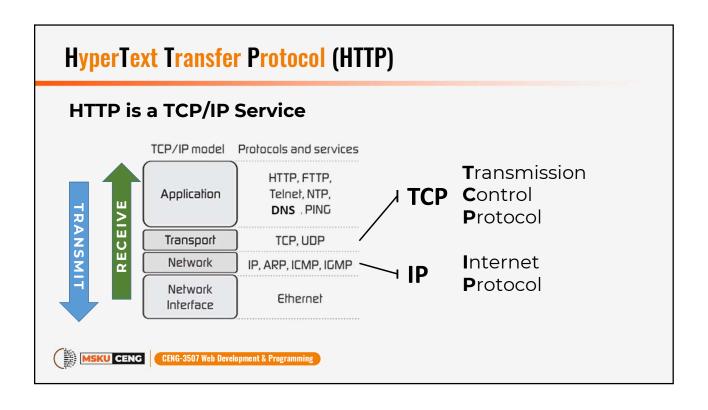
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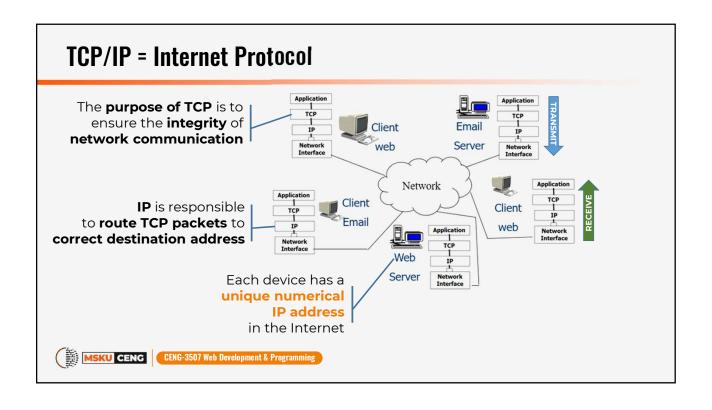


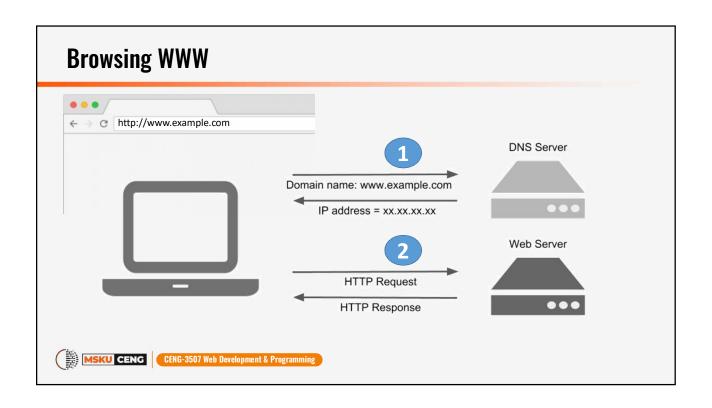


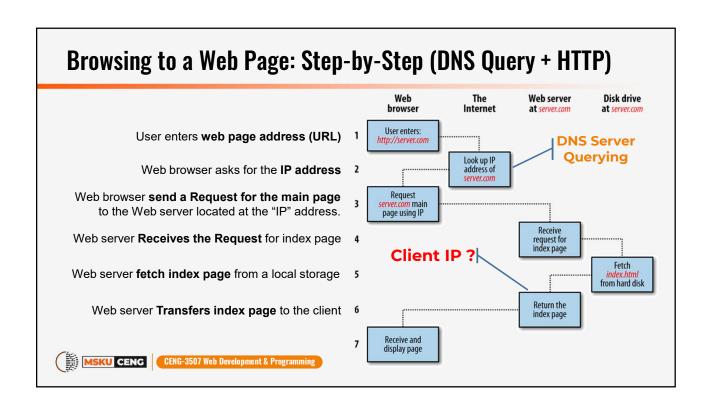


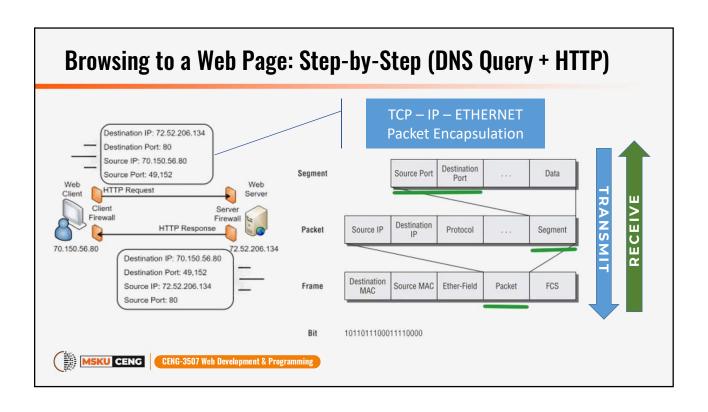




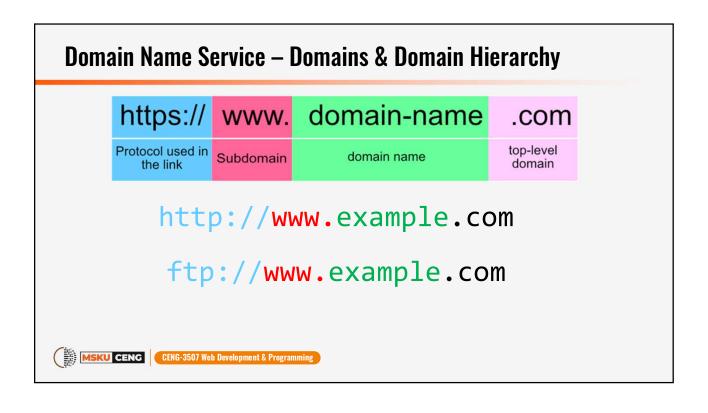


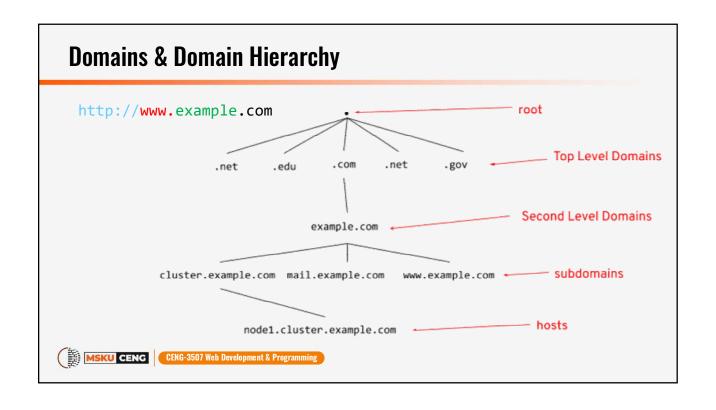


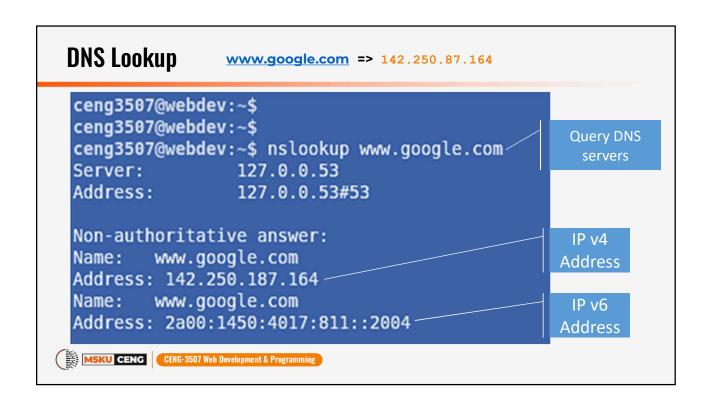


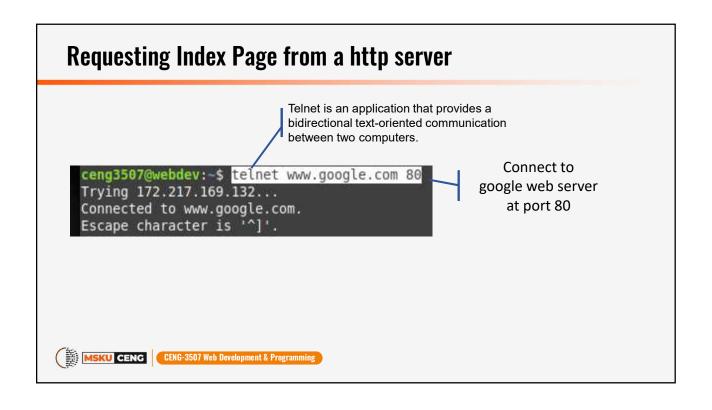


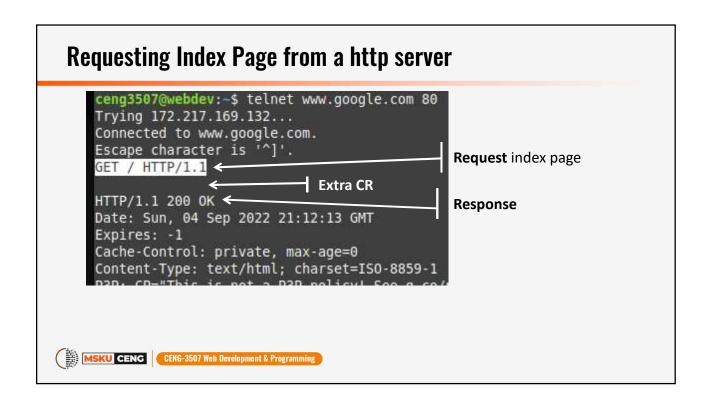
Port	IP	Protocol
25	TCP	SMTP
53	TCP & UDP	DNS
80	TCP	HTTP
161	UDP	SNMP

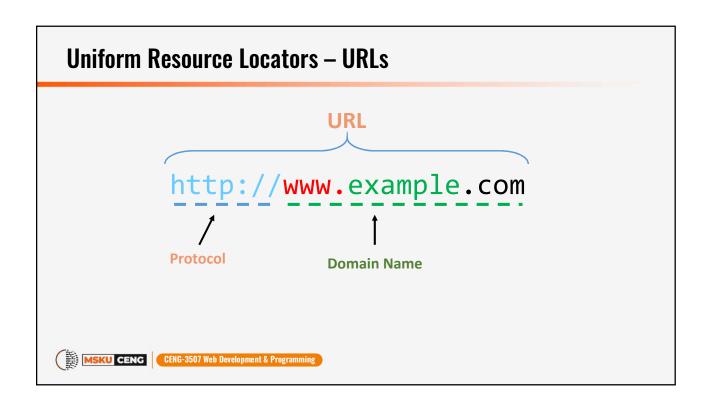


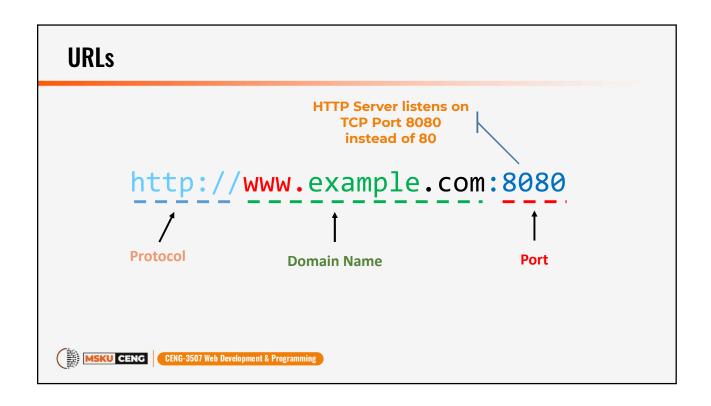


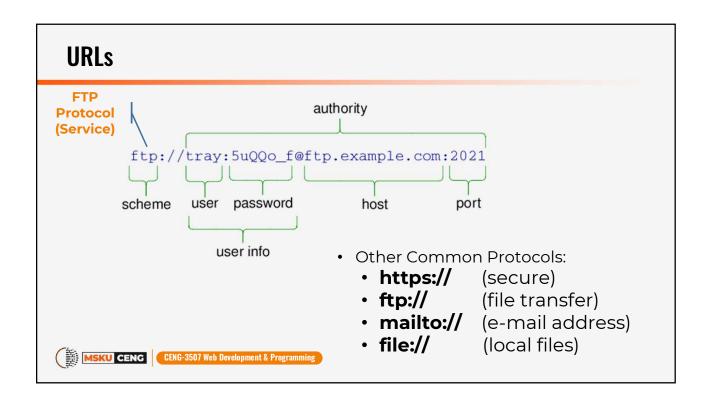


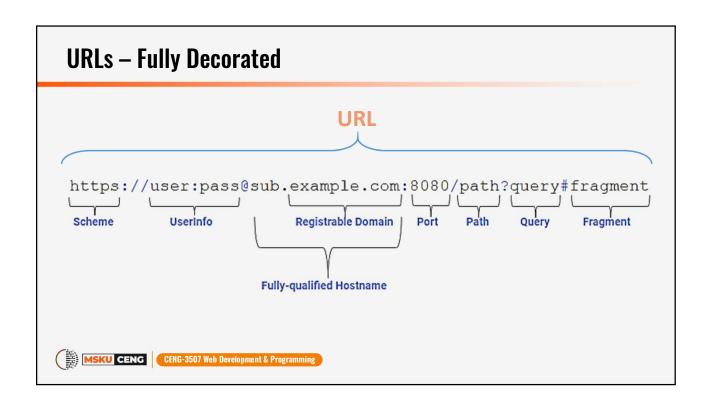


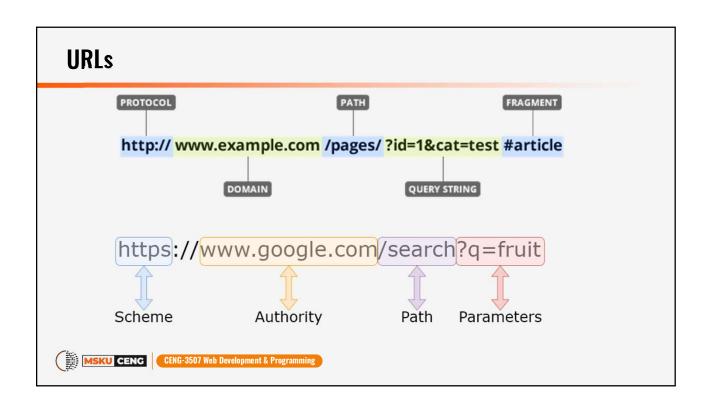


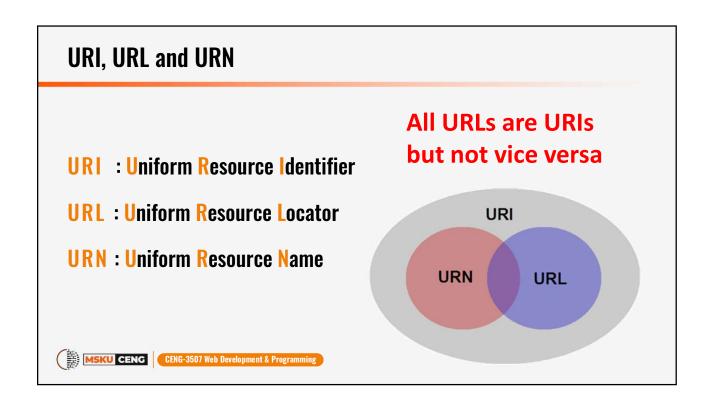


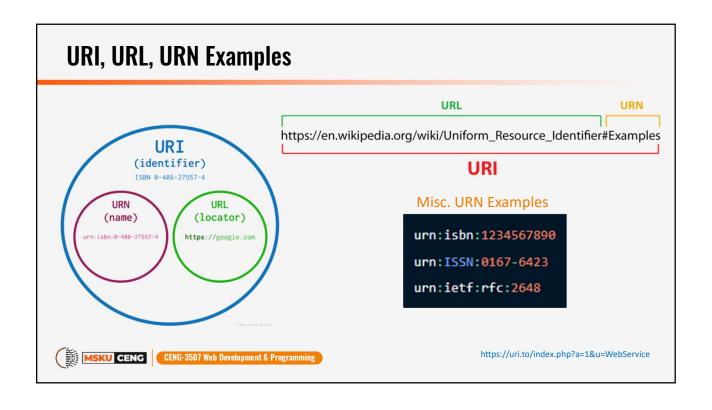


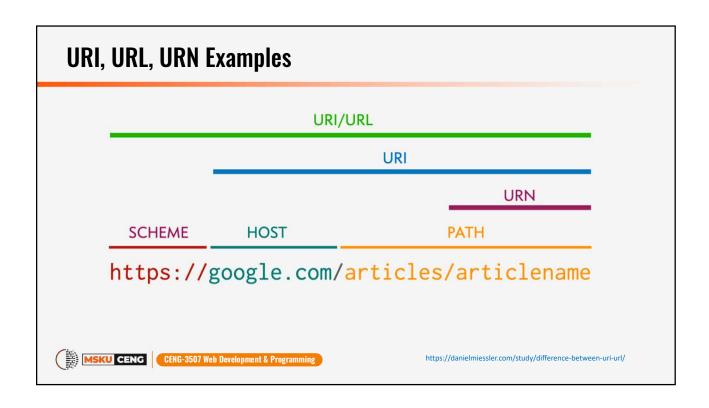


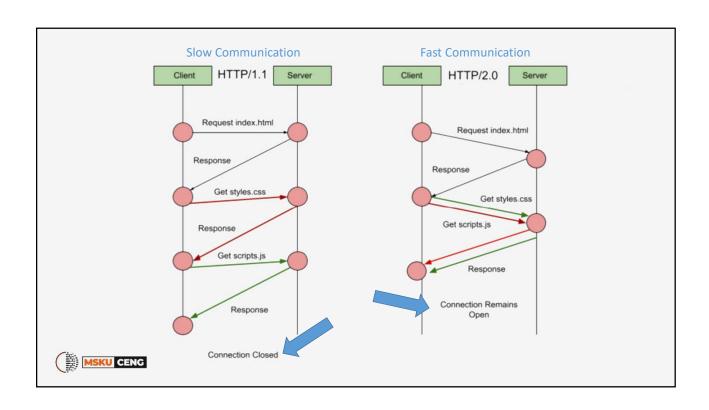












Multipurpose Internet Mail Extensions (MIME) Types

```
Connected to www.google.com.
Escape character is '^]'.
GET / HTTP/1.1

HTTP/1.1 200 OK
Date: Sun, 11 Sep 2022 17:40:27 GMT
Expires: -1
Cache-Control: private, max-age=0
Content-Type: text/html; charset=ISO-8859-1
P3P: CP="This is not a P3P policy! See g.co/p3
Server: gws
X-XSS-Protection: 0
X-Frame-Options: SAMEORIGIN
Set-Cookie: 1P_JAR=2022-09-11-17; expires=Tue,
```

text/html

MIME Type refers to HTML page.



Multipurpose Internet Mail Extensions (MIME) Types

Primary MIME Types

- text/plain : default for textual files.
- application/octet-stream: default for all other cases.

Common MIME Types

- text/css: Cascading Style Sheets (CSS).
- text/javascript : JavaScript.
- application/json: JSON format.
- image/jpeg : JPEG images



Other Markup Languages

Standard Generalized Markup Language (SGML)

SGML itself is not a markup language. Instead, it is a standard for specifying a markup language and create a **document type definition** (**DTD**). Tim Berners-Lee use SGML to develop HTML and create its specification.

Extensible Markup Language (XML)

XML was developed by the **W3C**, and designed to describe, deliver, store, exchange, transport data. It is intended to extend the power of HTML by separating data from presentation. It is designed to be both human and machine readable.



