

Vision. Value. You. fgcw

Information Systems

ISM 3011

Fall 2004
Unit 7A

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Assignment for Next Class

- Read and **prepare** the cases 1, 2, and 3. (pp. 311-316)

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The Internet

Chapter 7

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Packet-based Transmission

1 The whole
2 message is
3 split into multiple packets

FROM: 123 TO: 129

Header	Data
123 / 129 / 1	The whole
123 / 129 / 2	message is
123 / 129 / 3	split into multiple packets

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Routing

FROM: FT. MYERS TO: N.Y.C.

Post Office, Ft. Myers → Tampa → Orlando → Atlanta → N.Y.C.

TO = Atlanta? No!
TO = Tampa? No!
TO = Orlando? No!
TO = N.Y.C.? Yes → deliver!

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Internet: The Basic Idea

PC1, PC2, PC3, PC4, PC5, PC6

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Routing Messages Over the Internet

FIGURE 7-1
Routing Messages over the Internet

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IP Address

- Unique, numerical address for a computer (a connection) in a network.
- Example:
 - 170.124.233.14
- IP represents position in the network
 - changes, when a service moves or the structure of the grid is being modified.

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Domain

- Name for a host or service
 - e.g. www.fgcu.edu
- Is being translated by a Domain Name Server into an IP address
- www.fgcu.edu -> 207.203.214.28

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Domain Names

www.fgcu.edu

- **Top Level Domain**
 - com, gov, mil, de, it, ca etc.
- **Subdomains**
 - Name of the organization (e.g. "fgcu")
 - *Host name*
 - others

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U.S. Top Level Domain Affiliations

TABLE 7-1
U.S. Top-Level Domain Affiliations

Affiliation ID	Affiliation
com	business organization
edu	educational sites
gov	government sites
net	networking organizations
org	organizations

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Protocols

<http://www.fgcu.edu>

- Defines the type and content of the transmission
 - HTTP: Hypertext Transfer Protocol
 - FTP: File Transfer Protocol
 - SMTP: Send Mail
 - POP3: Retrieve Mail
 - TELNET: Terminal protocol

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The World Wide Web

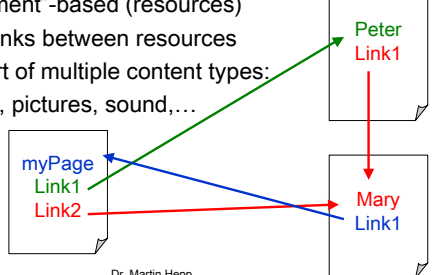


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The World Wide Web

- “Document”-based (resources)
- Hyperlinks between resources
- Support of multiple content types:
 - Text, pictures, sound,...

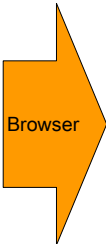


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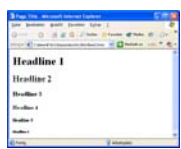
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Hypertext Markup Language

```
<html>
<head>
<title>Page
Title</title>
</head>
<body>
This is my FIRST HTML
page...
</body>
</html>
```



Browser



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A Simple HTML Document

```
<html>
<head>
<title>Page Title</title>
</head>
<body>
This is my FIRST HTML page...
</body>
</html>
```

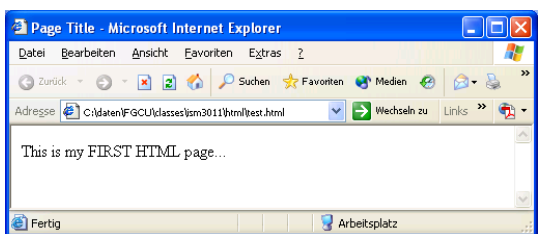
Tags

Content

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Browser View



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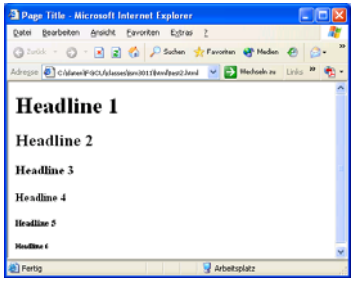
Important HTML Tags

```
<h1>Headline 1</h1>
<h2>Headline 2</h2>
<h3>Headline 3</h3>
<h4>Headline 4</h4>
<h5>Headline 5</h5>
<h6>Headline 6</h6>
```

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Browser View



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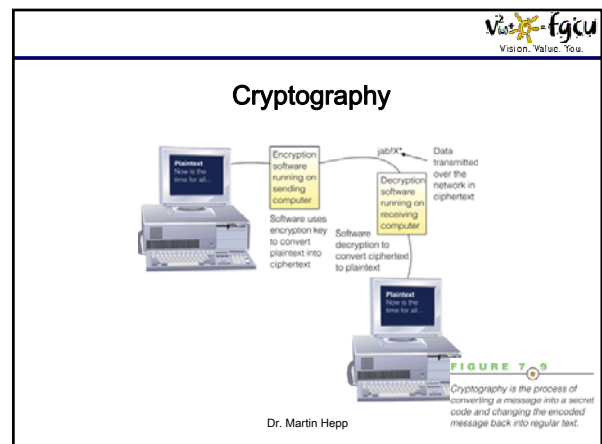
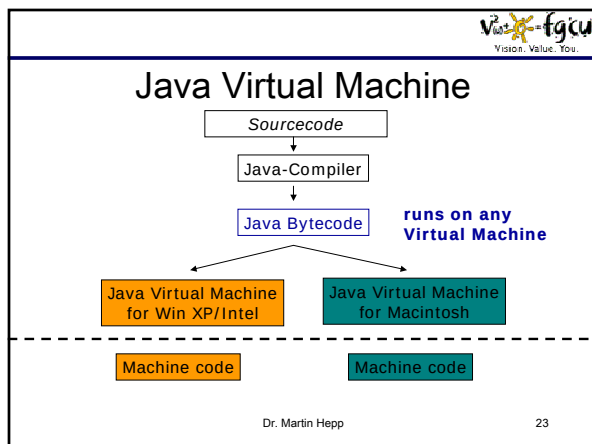
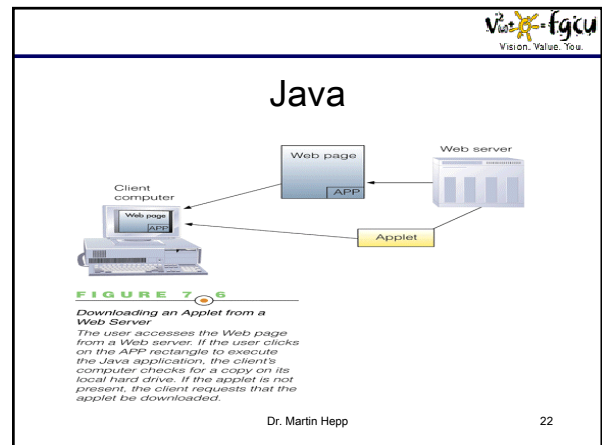
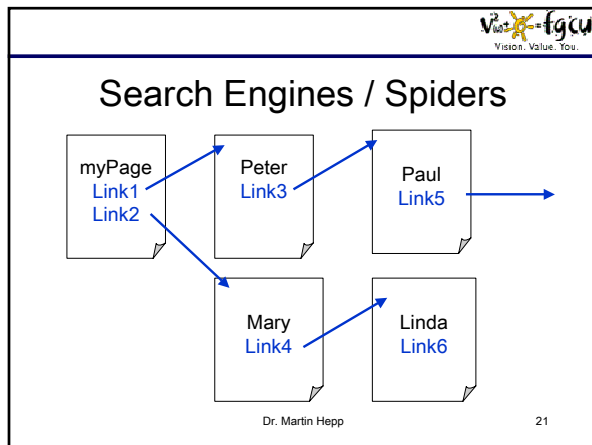
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Google

Google is one of the most popular search engines on the Web.



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Thank you!

The slides will be available on the internet at
<http://ruby.fgcw.edu/courses/mhepp/>
(-> CRN80097)

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