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Understanding Paths & Addressing

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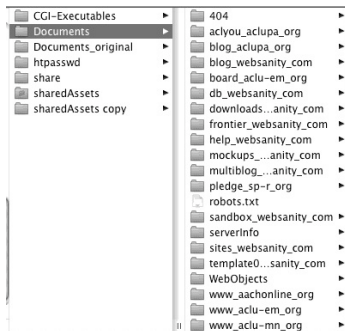
www.granneman.com

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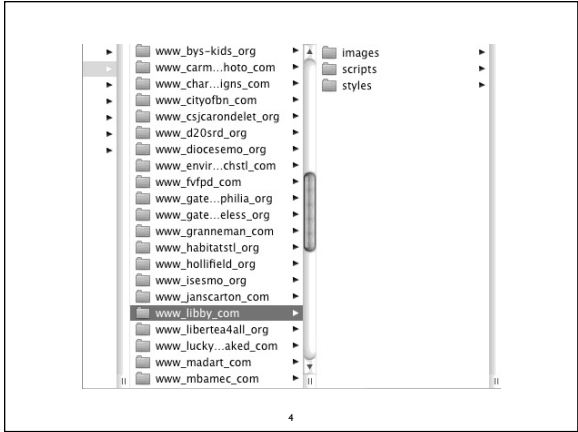
1

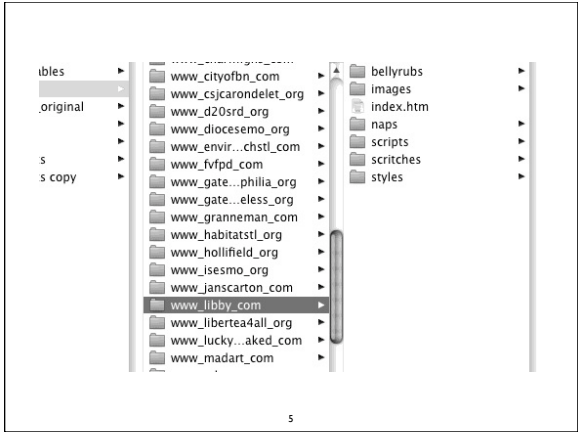
Default Folder Structure

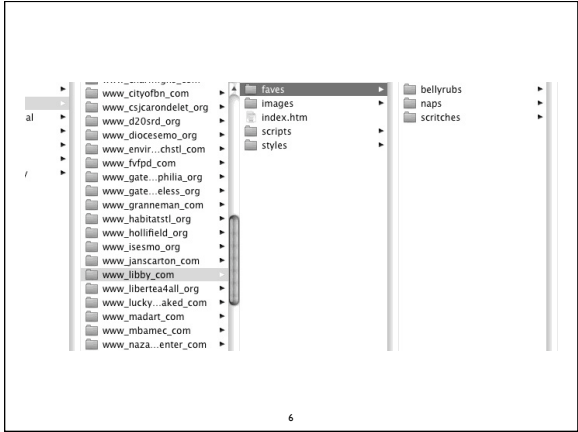
2

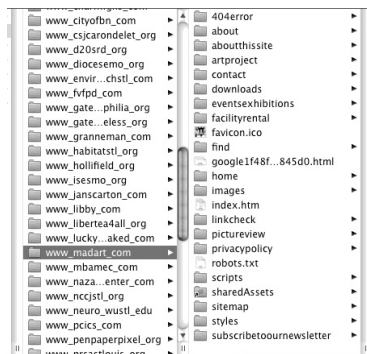
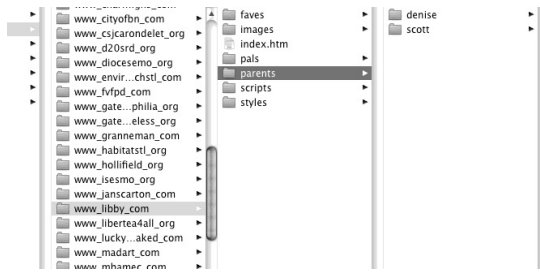
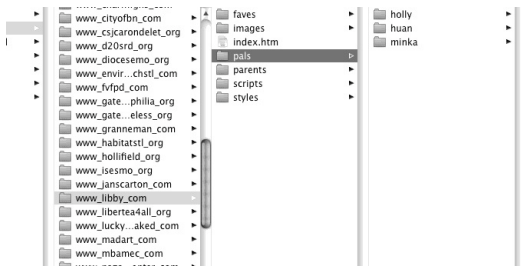


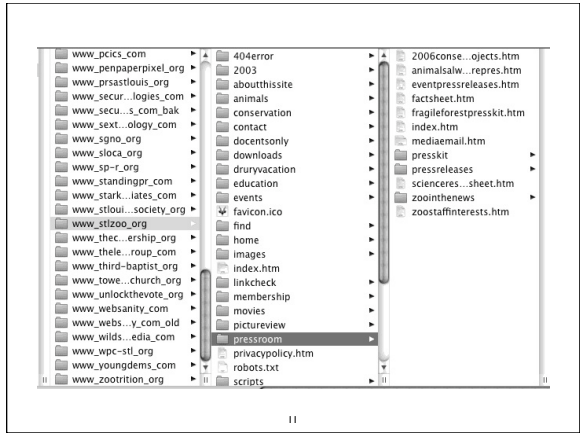
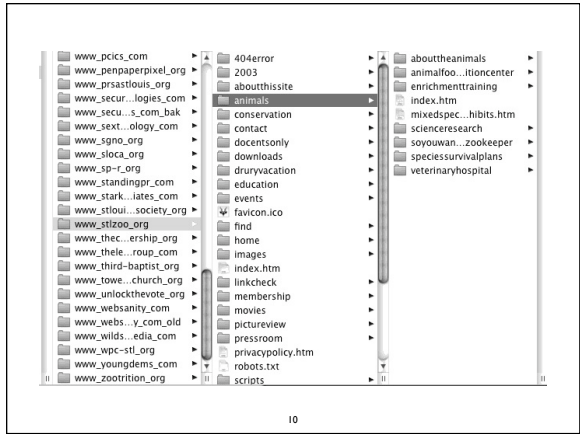
3











Default Index Files

The New York Times

Google

Scott Granneman

Where do you end up
when you go these URLs?

How does the web server
know which page you're asking for?

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The New York Times Arts

Google Apps

<a href="http://www.granneman.com/"

webdev/">

Web Development :: Scott Granneman

Where do you end up
when you go these URLs?

How does the web server
know which page you're asking for?

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Error 403

Access forbidden!

You don't have permission to access the requested directory. There is either no index document or the directory is read-protected.

If you think this is a server error, please contact the [webmaster](#).

Error 403

www.dlccesemo.org

Mon Sep 29 14:14:43 2008

Apache/2.2.8 (Ubuntu) mod_ssl/2.2.8 OpenSSL/0.9.7i DAV/2 PHP/5.2.6

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Error 404

Object not found!

The requested URL was not found on this server. If you entered the URL manually please check your spelling and try again.

If you think this is a server error, please contact the [webmaster](#).

Error 404

[www.janscarton.com](#)
Mon Sep 29 14:16:21 2008
Apache/2.2.8 (Unix) mod_ssl/2.2.8 OpenSSL/0.9.7i DAV/2 PHP/5.2.6

Directory Listing

Index of /downloads/apply/options

Name	Last modified	Size
 d6c7799b87664ed0a06c505d0e424d5data.txt	26-Sep-2008 16:23	3k
 610a8384f9721622f7f1c16489ea7061d0data.txt	25-Sep-2008 20:57	2k
 a873ae3c271180f65a0b1a34973b0071d0data.txt	25-Sep-2008 20:40	3k
 3a71ae784d0915c70d0d643a74d3c751d0data.txt	25-Sep-2008 15:32	3k
 4a663a89283b0b0e311786cf238d007c0data.txt	24-Sep-2008 23:53	3k
 e7c2d54817121277c509c6cc2896d68d0data.txt	24-Sep-2008 20:11	3k
 f1cf80b1460954c68a0b16c2e2e547d0data.txt	24-Sep-2008 19:50	3k
 a0925a39345009e03f0f727f0a72af42d0data.txt	24-Sep-2008 17:53	3k
 d8861a00f88f0d1532e26cd079b14356d0data.txt	24-Sep-2008 08:14	2k
 eed2192c51d0b3ee42e203ed0dc770ed0data.txt	23-Sep-2008 21:57	3k
 70b041345470f0ec20bc061b42edf920d0data.txt	23-Sep-2008 16:41	2k
 26cf61eef73f716713e000e300623ed0data.txt	23-Sep-2008 11:10	3k
 9c1e4d733c7d02a5e01314f727371ed0data.txt	23-Sep-2008 09:59	3k
 a7f50e63330075095f50e7010c0c721d0data.txt	22-Sep-2008 16:09	2k
 a03392c0d785b2e0ef3b06818d100d0data.txt	22-Sep-2008 11:22	3k
 7c0e009130b0473290b0336d50b247fd0data.txt	19-Sep-2008 09:44	4k
 44fd7188a101d05d1c45f5cf6424e002d0data.txt	16-Sep-2008 16:23	2k
 61d23a8d08952ff0b5d0283fd8d025f0ad0data.txt	16-Sep-2008 01:13	3k
 1e26d9480753fcc339404af4234c3a0ad0data.txt	14-Sep-2008 21:29	2k
 3b0df06e950b07f53c110a174fd35e33d0data.txt	14-Sep-2008 17:06	3k



Typical Default Index Files

Apache	IIS
index.html	default.htm
index.htm	default.asp
index.php	
index.shtml	

You can use any of these
on any web server,
depending upon how it's configured

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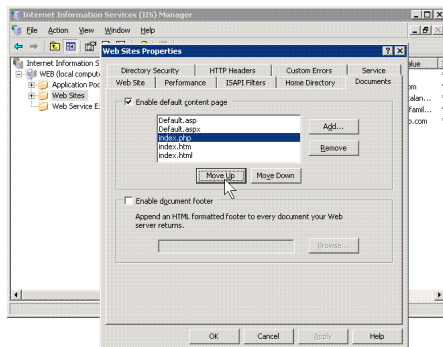
Apache

DirectoryIndex "index.php" "index.html" "index.htm"

OR

DirectoryIndex "index.htm" "index.php" "index.shtml"

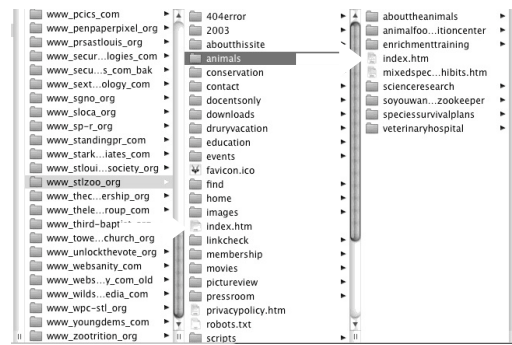
20



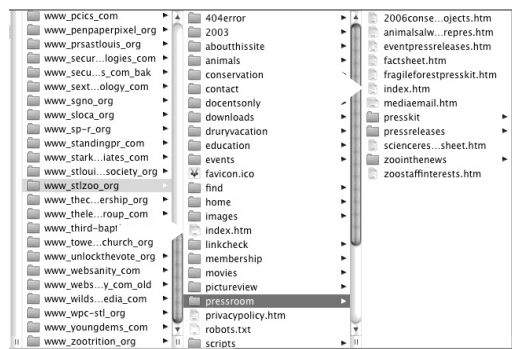
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index.htm
index.html
index.shtml
default.html
default.shtml
default.asp
index.php
index.asp
index.jsp

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Absolute & Relative

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Absolute

The full, complete address
to somewhere,
from start to finish

Relative

The address
to somewhere,
in relation to where you are now

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Absolute Directions

Party at my house!

40 to Skinker

N on Skinker

Pass Forest Park Parkway

R/E on Waterman

1 and 1/2 blocks on Waterman

6047 Waterman

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Relative Directions

Party at my house!

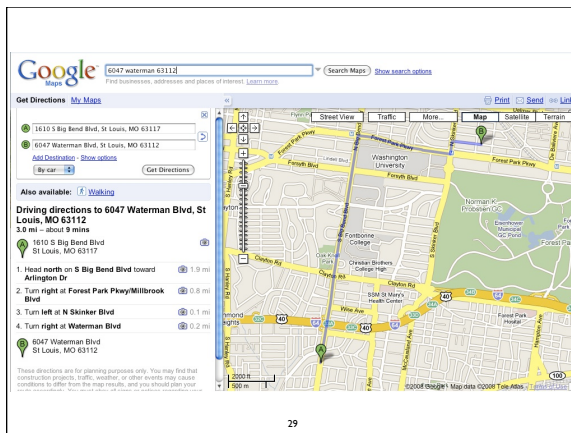
From Wash U,
walk down Skinker to Waterman

Right on Waterman

1 and 1/2 blocks on Waterman

6047 Waterman

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	URL	Path
Relative	foo.htm bar/foo.htm	../foo.htm ../bar/foo.htm
Absolute	http://www.foo.com	/foo.htm /bar/foo.htm

URL points to Web address

Path points to file system

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OK	Never OK
foo.htm	C:\Windows\foo.htm
bar/foo.htm	\Windows\foo.htm
http://www.foo.com	\foo.htm
../foo.htm	
/bar/foo.htm	

No OS-specific paths!

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URL

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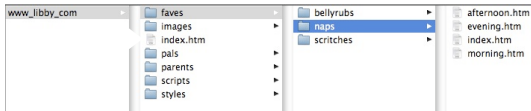
Absolute URL

<http://www.libby.com/>

<http://www.libby.com/parents/>

[http://www.libby.com/parents/
scott.htm](http://www.libby.com/parents/scott.htm)

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On index.htm

```
<a href="http://www.libby.com/faves/naps/afternoon.htm">After lunch</a>  
<a href="http://www.dogster.com">Chat with pals</a>
```

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Relative URL

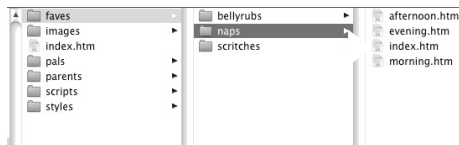
foo.htm

bar/foo.htm

The server fills in the rest:

```
http://  
www.libby.com/  
path/to/URL/
```

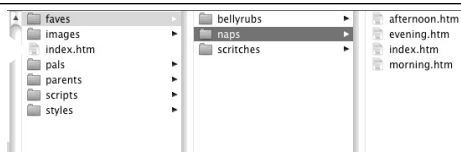
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On index.htm:

```
<a href="morning.htm">After breakfast</a>  
<a href="afternoon.htm">After lunch</a>  
<a href="evening.htm">After dinner</a>
```

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On index.htm:

```
<a href="faves/naps/morning.htm">After  
breakfast</a>  
<a href="faves/naps/afternoon.htm">After  
lunch</a>  
<a href="faves/naps/evening.htm">After  
dinner</a>
```

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Path

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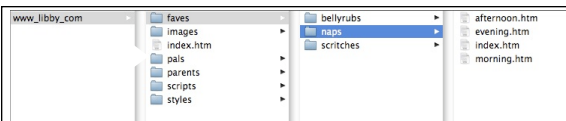
Relative Path

../foo.htm

../../foo.htm

../../bar/foo.htm

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As we just learned,
going *down* with a Relative URL is easy:

~~naps/evening.htm~~

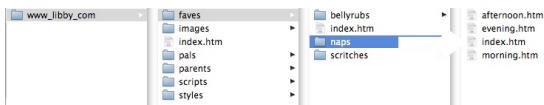
~~naps/~~

faves/naps/

faves/naps/morning.htm

How do you go *up*?

../ = up



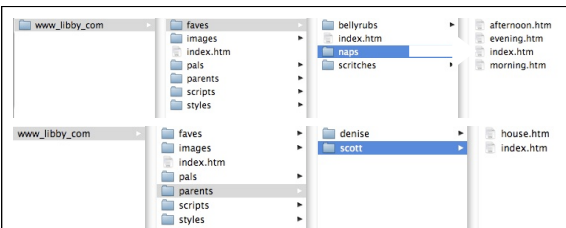
On index.htm:

../index.htm

../

../..

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On index.htm:

../../parents/scott/index.htm

../../parents/scott/

../../parents/scott/house.htm

../../styles/main.css

Absolute Path

/foo/bar.htm

The web server fills in the rest:

http://

www.libby.com

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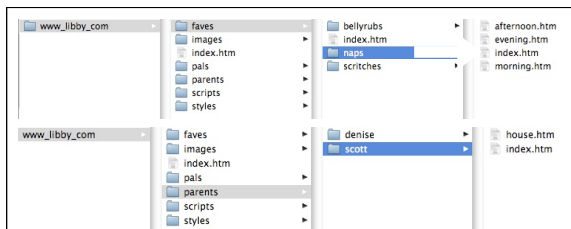
The 1st / in

/foo/bar.htm

is always short for

http://www.libby.com

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On index.htm:

/parents/scott/house.htm

/parents/scott/

/styles/main.css

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Which One?

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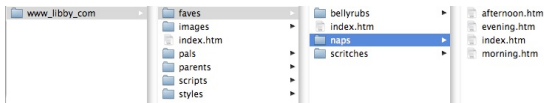
Advantages of Relative URLs & Paths

Quick & easy on small sites

Can test site on your local computer without a web server

Can change domain name easily

Can move directories up or down & links are preserved



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Advantages of Absolute URLs & Paths

Doesn't matter where the page with link on it is in the file structure

Quick & easy

Can change domain name easily (Absolute Path only)

Required for external links (Absolute URL only)

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Thank you!

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