

# HTTP

The World Wide Web of Resources

Scott Allen



# Outline

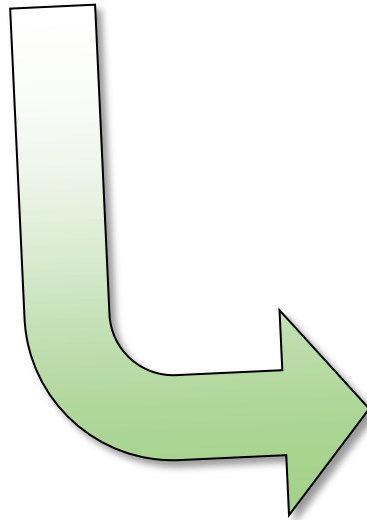
- Resources \*
- Messages
- Connections
- Security
- Hardware



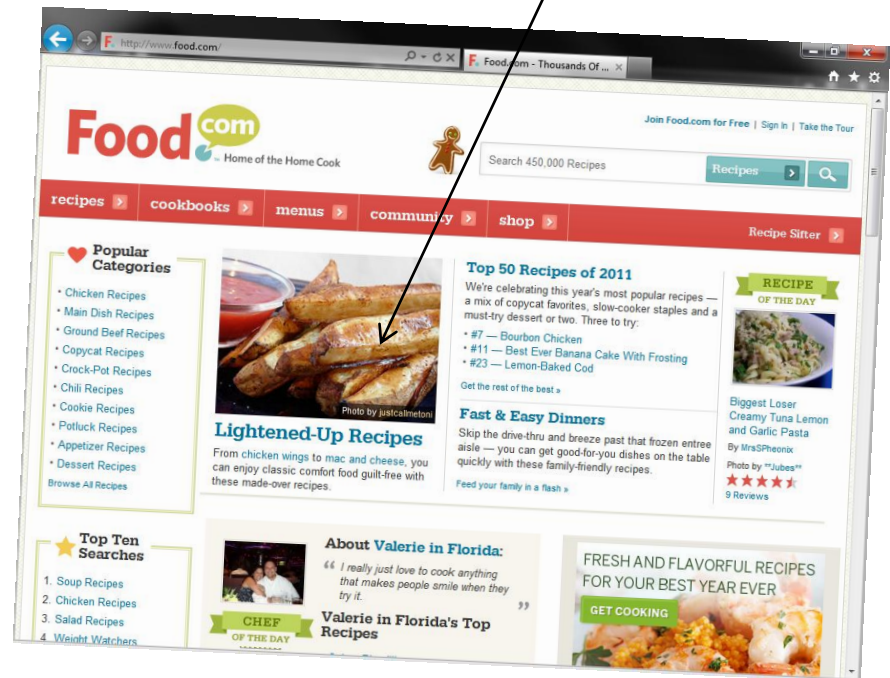
# Uniform Resource Locator

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

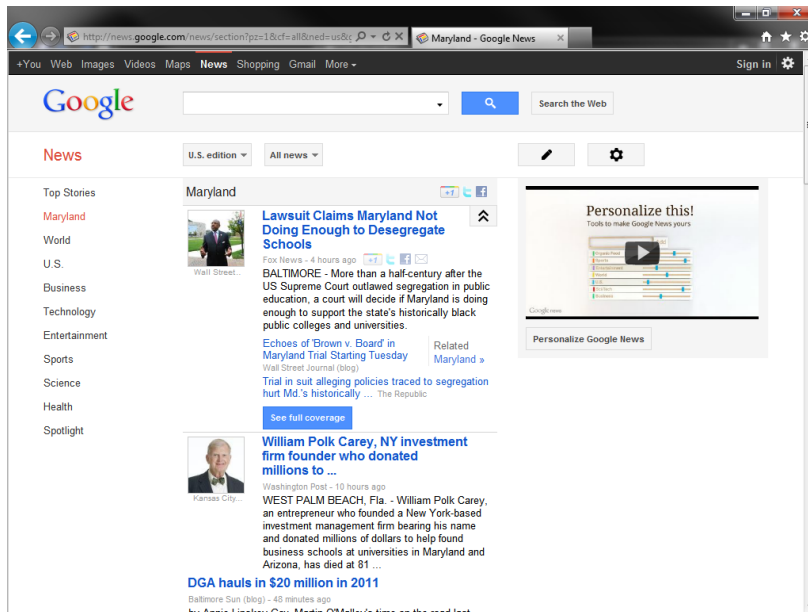
Also a resource (an image)



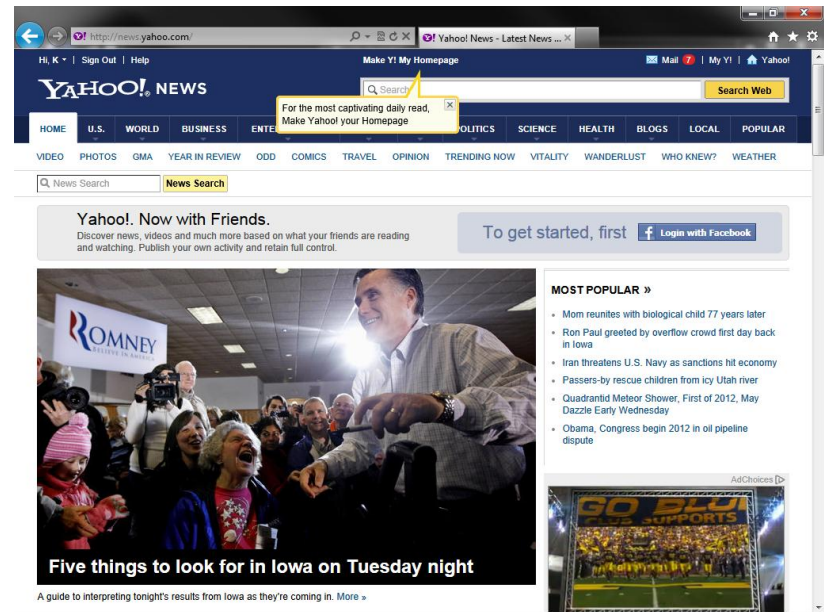
A resource (food.com home page)



http://news.google.com



http://news.yahoo.com



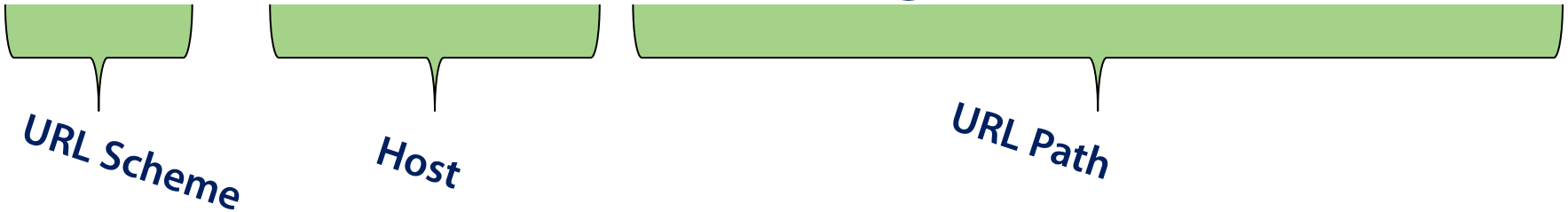
http://food.com/recipe/broccoli-salad

The screenshot shows the Food.com website with the 'Broccoli Salad' recipe page. At the top, there is a Swiffer HD Challenge banner. The main header includes the Food.com logo, a search bar with '450,000 Recipes', and navigation links for recipes, cookbooks, menus, community, and shop. The recipe title 'Broccoli Salad' is displayed, along with the author 'vincy bramblett' and the date 'Added August 07, 2001'. The recipe is categorized under 'Cheese', 'Broccoli', and 'Eggs/dairy'. The recipe image shows a bowl of broccoli salad. The 'Total Time' is 30 mins, with a prep time of 30 mins and a cook time of 0 mins. A note from the author states: 'This is always a HIT with guests. I make this everytime we have a get together and the bowl is always left empty!!'. A 'Next Recipe' section suggests 'Broccoli Salad' by Aroostook. The page also features a 'Recipe Sitter' link and a 'View All Cheese Recipes' link.

http://food.com/recipe/grilled-cauliflower

The screenshot shows the Food.com website with the 'Grilled Cauliflower' recipe page. At the top, there is a Progressive banner. The main header includes the Food.com logo, a search bar with '450,000 Recipes', and navigation links for recipes, cookbooks, menus, community, and shop. The recipe title 'Grilled Cauliflower' is displayed, along with the author 'KeyWee' and the date 'Added February 14, 2002'. The recipe is categorized under 'Side dishes', 'Cauliflower', and 'Vegetables'. The recipe image shows a piece of grilled cauliflower. The 'Total Time' is 45 mins, with a prep time of 5 mins and a cook time of 40 mins. A note from the author states: 'I actually won a cash prize in our local paper for this recipe. My husband and I will eat the whole thing ourselves - make several if y...'. A 'Next Recipe' section suggests 'Grilled Cauliflower' by Rita. The page also features a 'Recipe Sitter' link and a 'View All Side Dishes Recipes' link.

# http://food.com/recipe/grilled-cauliflower



`ftp://server.com/docs/ad/tpsreport.pdf`  
`mailto://scott@odecode.com`

DNS Server

Q: Where is food.com?  
A: It's at IP address 204.78.50.82



<http://food.com/images/logo.jpg>



You are in: [Home](#) / [Recipes](#) / Broccoli Salad Recipe

## Broccoli Salad

By [vincy bramblett](#)

Added August 07, 2001 | Recipe #10733

Categories: [Cheese](#) • [Broccoli](#) • [Eggs/dairy](#) • [More](#)

Recipe

Ratings &amp; Reviews (179)

Photos (4)



Photo by BecR

4 Photos of Broccoli Salad

[See All Photos](#)

Rate it | Read 179 Reviews

**Total Time:****30 mins**

Prep Time:

30 mins

Cook Time:

0 mins

**vincy bramblett's Note:**

“ This is always a HIT with guests. I make this everytime we have a get together and the bowl is always left empty!! ”

### Ingredients:

Servings: 8-12

Units: [US](#) | [Metric](#)1 -2 head [fresh broccoli](#) (do not use frozen!)1/2 cup [red onion](#) , chopped1/2 lb [bacon](#)2 1/2 tablespoons [vinegar](#)**RECIPE TOOLS**[Print Recipe](#)[View Full Screen](#)[Add a Private Note](#)[Add Your Photos](#)[Ask a Question](#)[Submit a Correction](#)

### Next Recipe

**Broccoli Salad**By [Aroostook](#)

★★★★★

[View All Cheese Recipes](#)

The new  
**Citi Simplicity Card**

No late fees.  
No penalty rate.  
No worries.

[Learn More](#)



```
<head>
```

```
<meta http-equiv="Content-type" content="text/html; charset=utf-8" />
```

```
<meta http-equiv="X-UA-Compatible" content="IE=7" />
```

```
<link rel="shortcut icon" type="image/x-icon" href="http://www.food.com/favicon.ico"/>
```

```
<link rel="stylesheet" href="http://food.sndimg.com/css/sni-rz.css" type="text/css" />
```

```
<script src="http://food.sndimg.com/js/rz2/rz.min.js" charset="utf-8"></script>
```

```
<script type="text/javascript">
```

```
try{
```

```
    SNI.Ads._adServerHostname = 'adsremote.scrippsnetworks.com';
```

```
}catch(e){}
```

```
    mdManager = new MetaDataManager();
```

```
</script>
```

```
<script type="text/javascript">
```

```
mdManager.addParameter("adkey1", "QUICK AND_EASY");
```

```
mdManager.addParameter("adkey2", "empty");
```

```
mdManager.addParameter("CategoryDspName", "RECIPES");
```

```
mdManager.addParameter("Classification", "RECIPES, RECIPES, FOODCOM");
```

```
mdManager.addParameter("keywordids", "10,12,13,14,15,16,17,21,97,107,109,141,154,156,220,252,430,458");
```

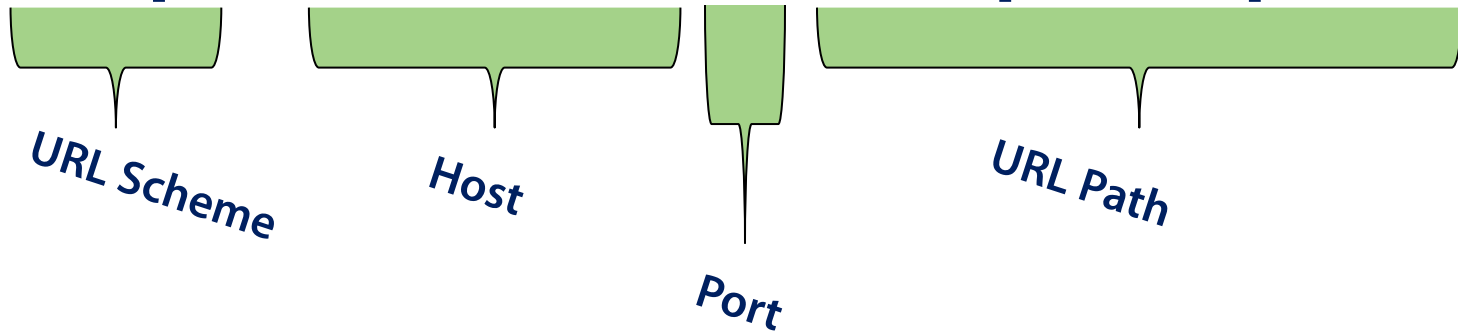
```
mdManager.addParameter("keywords", "30_minutes_or_less,time_to_make,course,main_ingredient,cuisine,preparation, north_american, eggs_dairy, vegetables, american, easy, potluck, dinner_party, cheese, dietary, broccoli, to_go");
```

```
mdManager.addParameter("SctnDspName", "RECIPES");
```

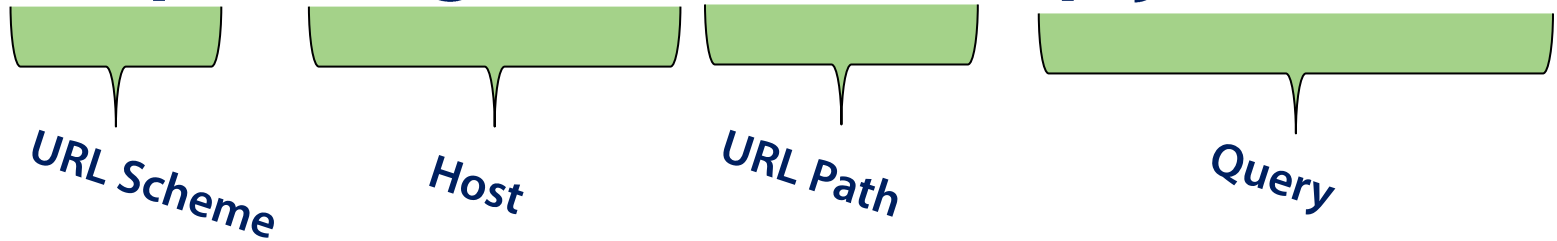
```
mdManager.addParameter("Site", "FOODCOM");
```

```
mdManager.addParameter("Type", "RECIPE");
```

# http://food.com:80/recipes/squash



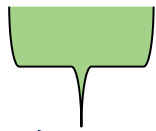
# http://bing.com/search?q=jaboticaba



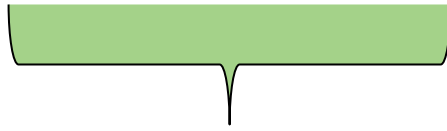
http://hr-intranet/search?firstName=Scott&lastName=Allen



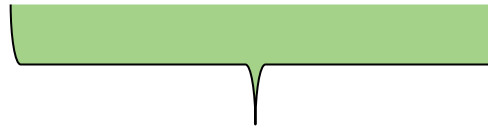
# http://wikipedia.org/wiki/Jabuticaba#Description



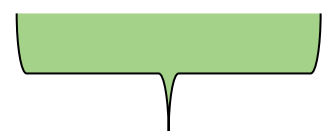
URL Scheme



Host



URL Path



Fragment



**http://host:8080/path?q=query#fragment**



# URL Encoding



Is that one space or two?



# Safe Characters

abcdefghijklmnopqrstuvwxyz

1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ

\$-\_.+\*'(),



# Commonly Encoded Values

ASCII Character	URL-encoding
space	%20
!	%21
"	%22
#	%23
\$	%24
%	%25
&	%26

For more, see: <http://i-technica.com/whitestuff/urlencodechart.html>





**<http://ps.com/scott%20allen>**





I want to view  
<http://pictureserver/funnycats.jpg>



Content is type "image/jpeg"  
Here is a bunch of 1s and 0s



# Common MIME Types

Type/Subtype	Description
application/atom+xml	Atom feed
application/json	JSON data
image/gif	GIF image
image/png	PNG image
video/mp4	MP4 video
text/xml	XML
text/html	HTML
text/plain	Just text



# Content Negotiation



I want broccoli recipes  
<http://foodserver/recipes/broccoli>  
P.S. Use HTML and French



Content is type "text/html"  
<html> .... </html>



# Where Are We?

- Resources
- URLs
- Representations

