

The Internet

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There may be as many as four optional character attributes which may be associated with any character on the screen. Normally, when an attribute is desired it is associated with all characters displayed after it until it is changed. Characters with attributes never lose their attributes as long as they remain on the screen without being overwritten. The separate attributes are bold, underline, blink, and double-height. Attributes may be turned on or combined, as follows:

Any combination is legal.

Along with the character attributes there are some line and screen wrap attributes of note.

Lines and screens wrap around dramatically. In other words, if the screen is full, the next line of double-height text is placed on a line of line wrap.

Double-height text may be changed.

Lines are wrapped around.

Screen wrap is automatic.

Then there is the double height line.

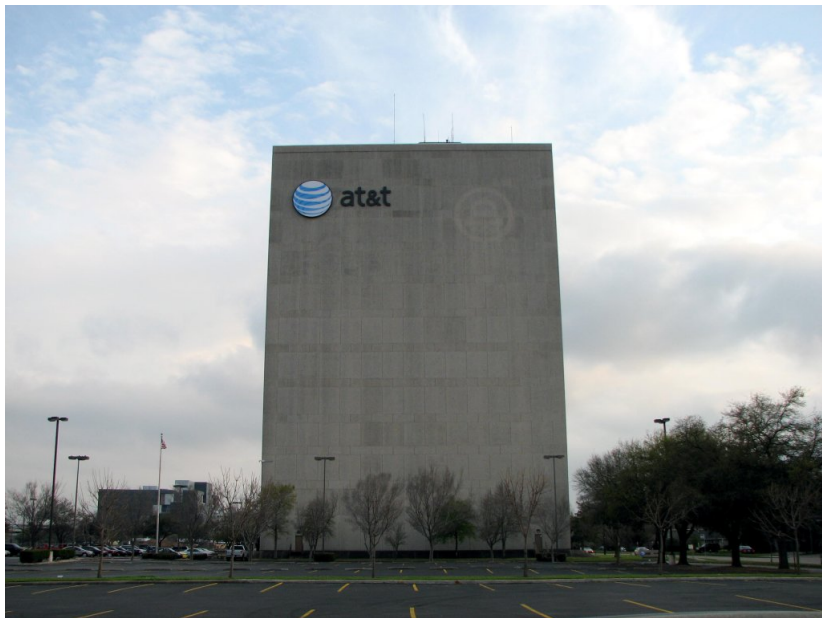
The double height line is always double width.

and provides that extra emphasis for very important display.









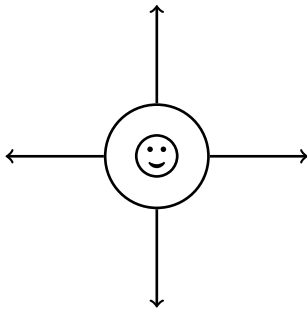


Circuit Switching

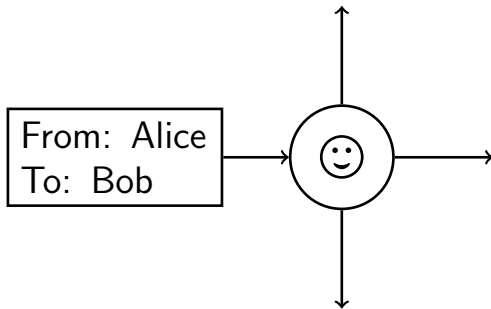


Packet Switching

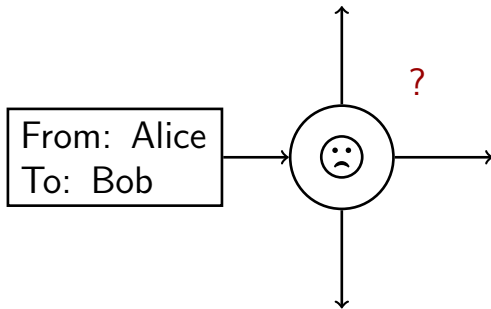
Routing



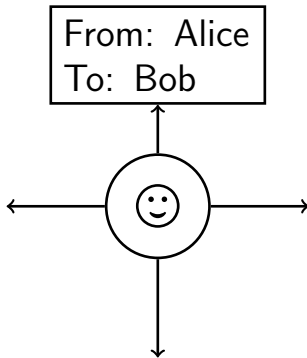
Routing



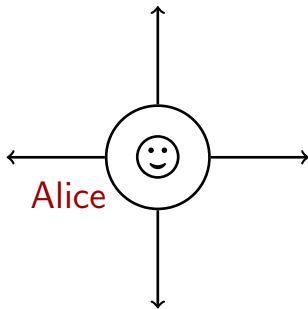
Routing



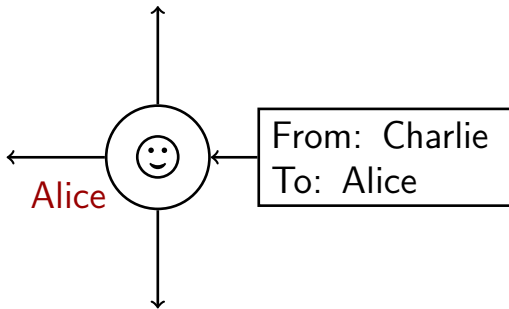
Routing



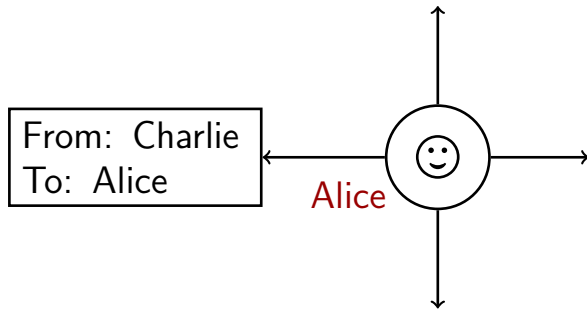
Routing

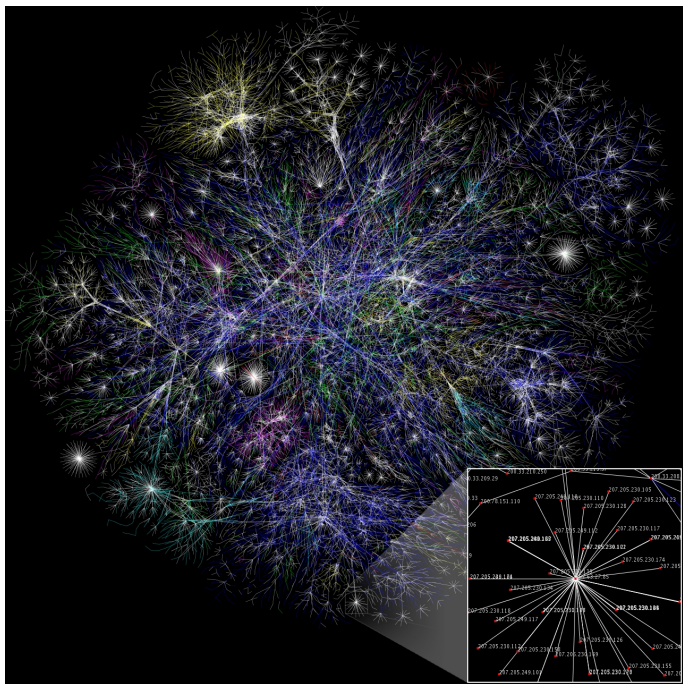


Routing



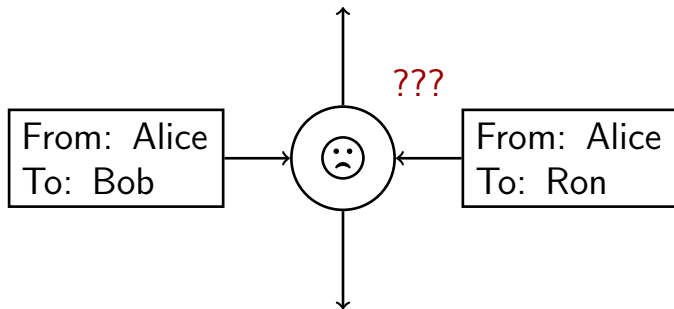
Routing





Internet Protocol

Name Conflict



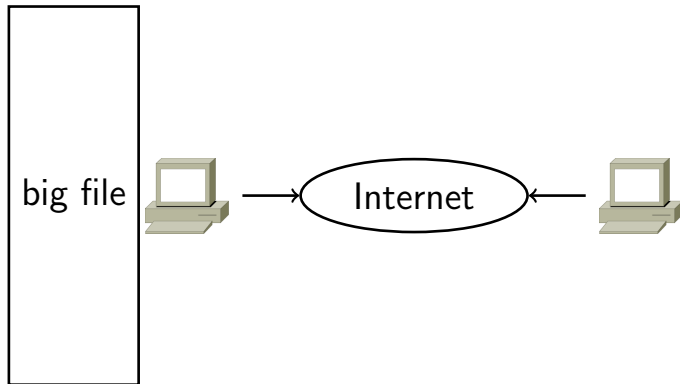
Unique IP Numbers!

129.252.189.62

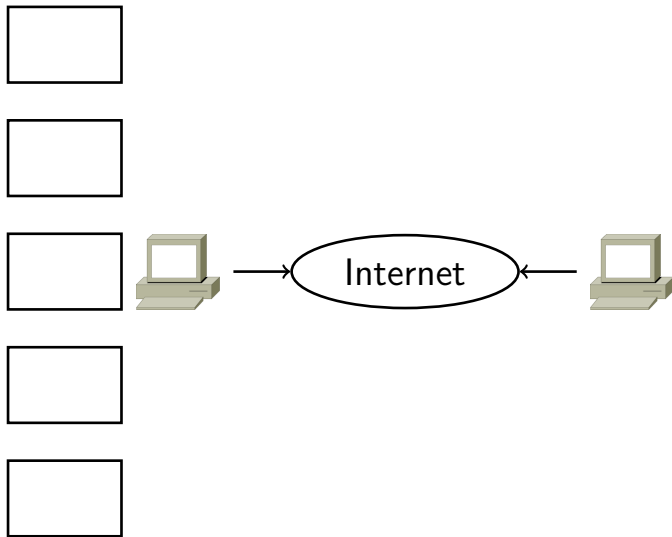


Oops, I dropped it!

Dealing with Dropped Packets



Dealing with Dropped Packets



Dealing with Dropped Packets

1/5

2/5

3/5

4/5

5/5



Dealing with Dropped Packets

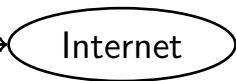
1/5

2/5

3/5

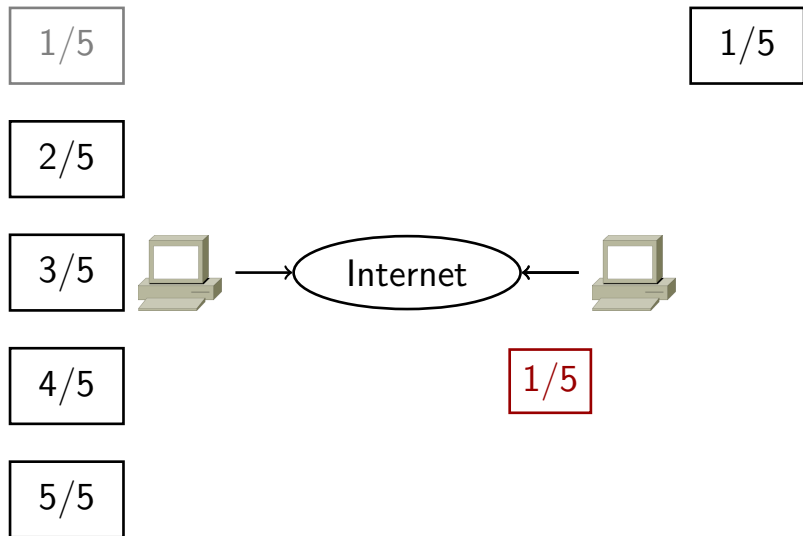
4/5

5/5

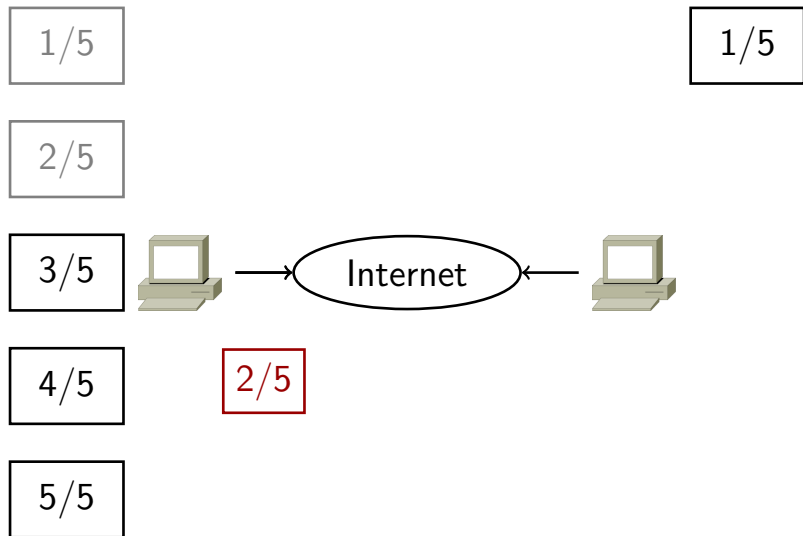


1/5

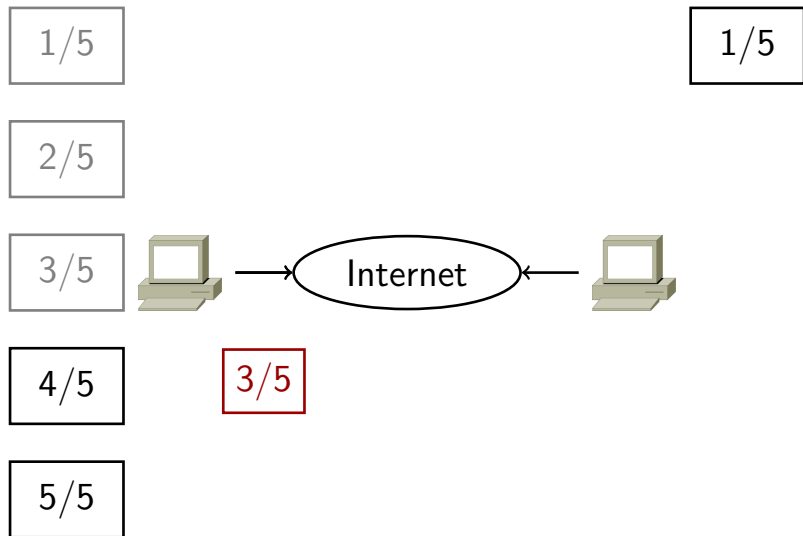
Dealing with Dropped Packets



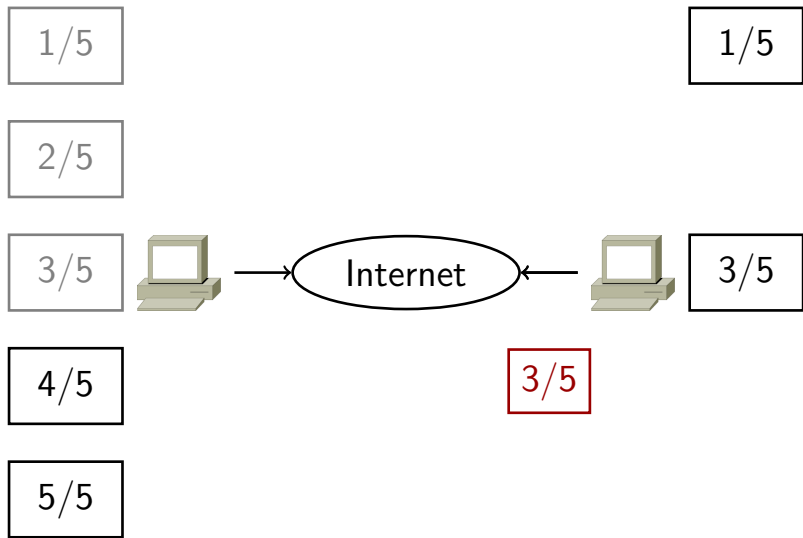
Dealing with Dropped Packets



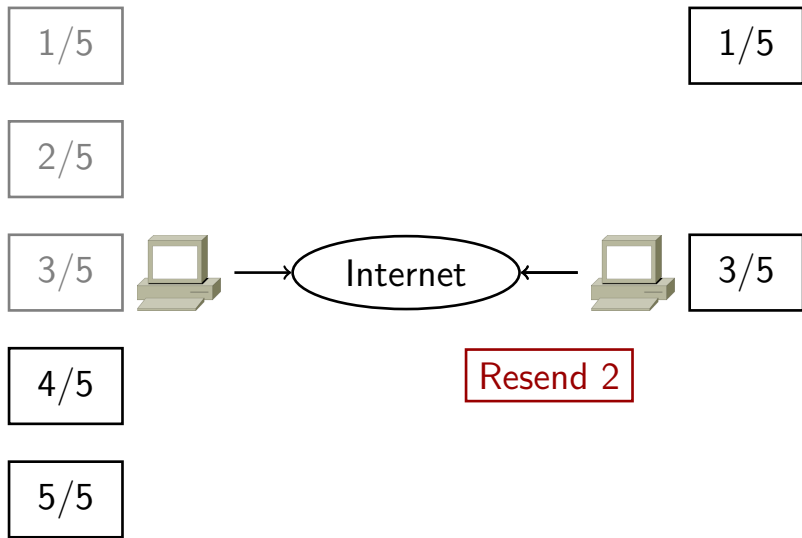
Dealing with Dropped Packets



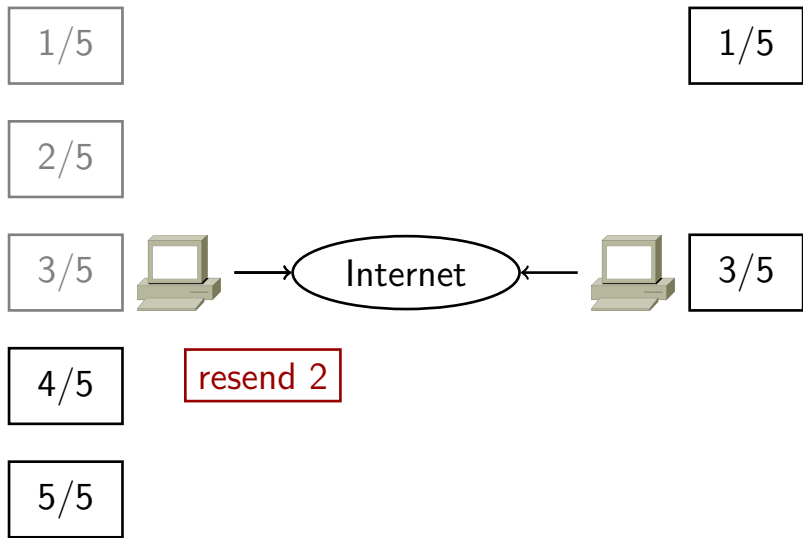
Dealing with Dropped Packets



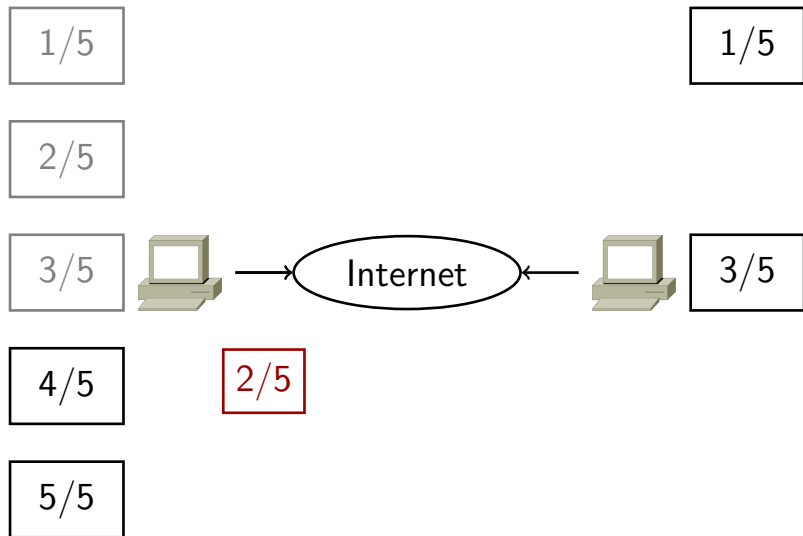
Dealing with Dropped Packets



Dealing with Dropped Packets



Dealing with Dropped Packets



Transmission Control Protocol

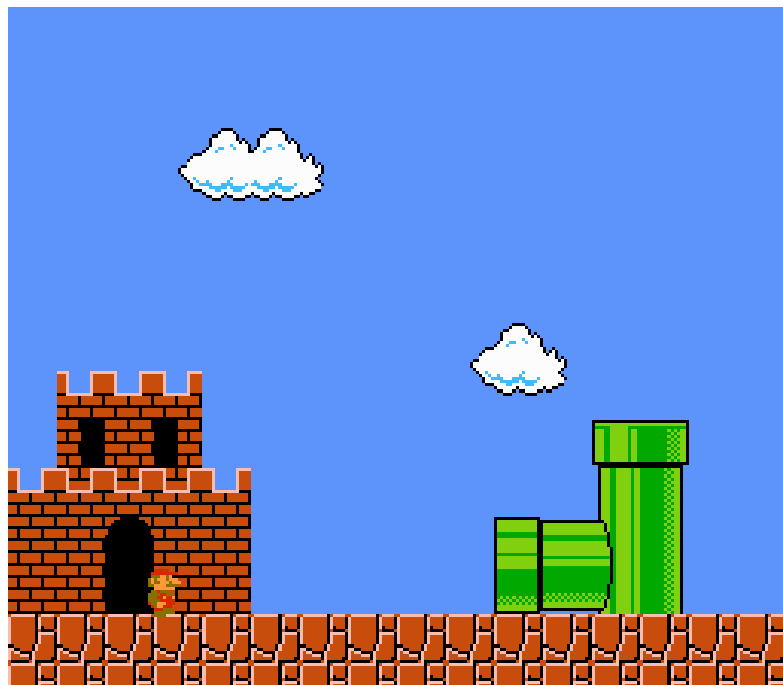
TCP/IP



SUITABLE FOR WET
LOCATIONS WHEN
COVER CLOSED

GAMPAK

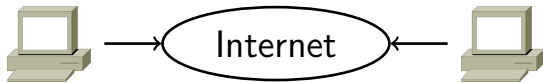




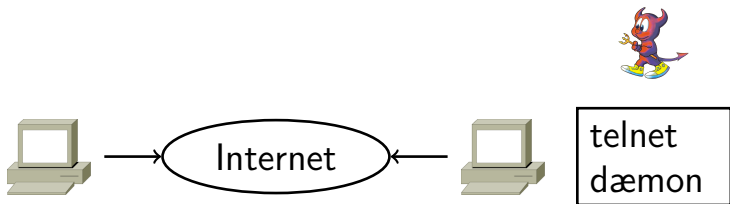
Socket Abstraction

telnet

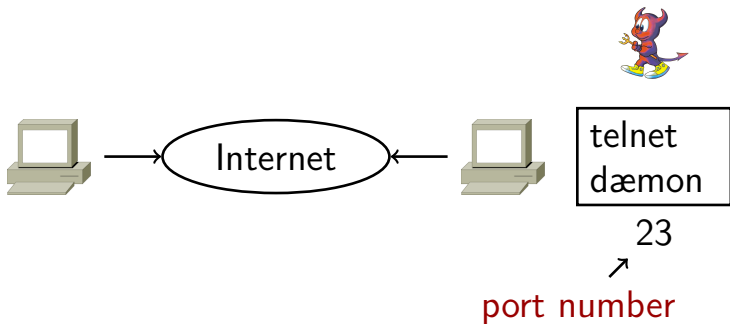
Telneting



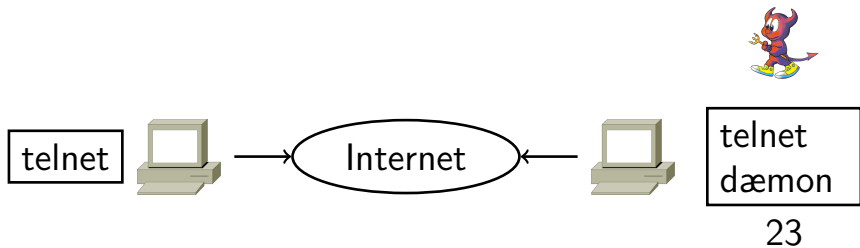
Telneting



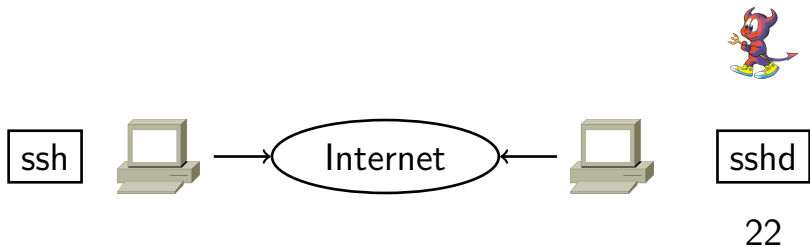
Telneting



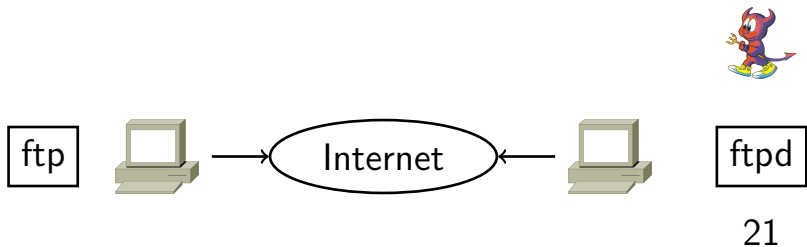
Telneting



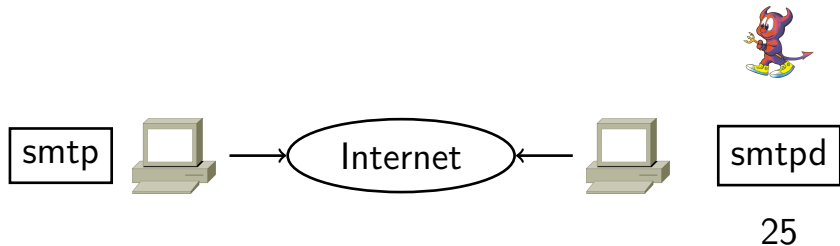
SSH



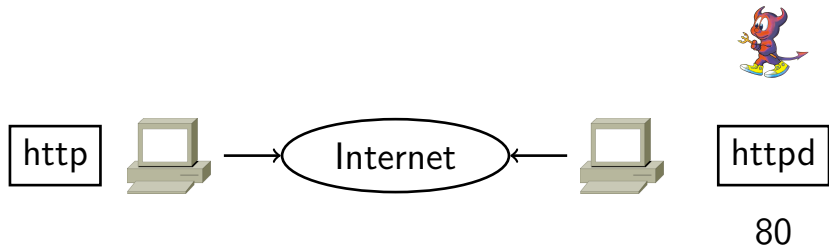
File Transfer Protocol



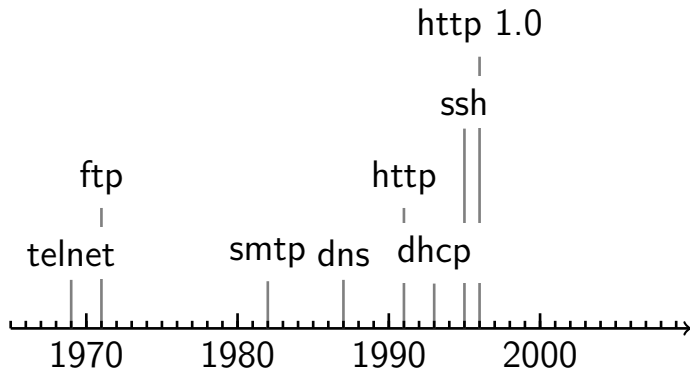
Simple Mail Transfer Protocol



Hyper Text Transfer Protocol



Application Layer Protocols





HTTP

```
>telnet www.cse.sc.edu 80
```

```
Trying 129.252.138.9...
```

```
Connected to www.cse.sc.edu.
```

```
Escape character is '^]'.
```

```
GET / HTTP1.0
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 06 Nov 2007 14:19:18 GMT
```

```
Server: Apache/2.0.52 (Red Hat)
```

```
Accept-Ranges: bytes
```

```
Connection: close
```

```
Content-Type: text/html; charset=ISO-8859-1
```

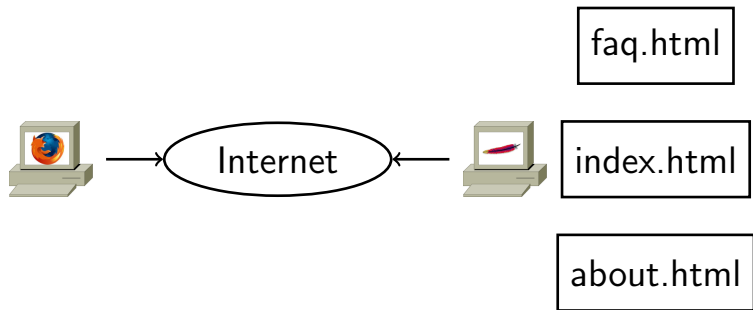
HTML

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
<html xmlns="http://www.w3.org/1999/xhtml"
<head>
<meta name="Keywords" content="...
<title>University of South Carolina</title>
<body>
<div id="boxcase">
<h3>Table of Contents</h3>
....
</body>
</html>
```

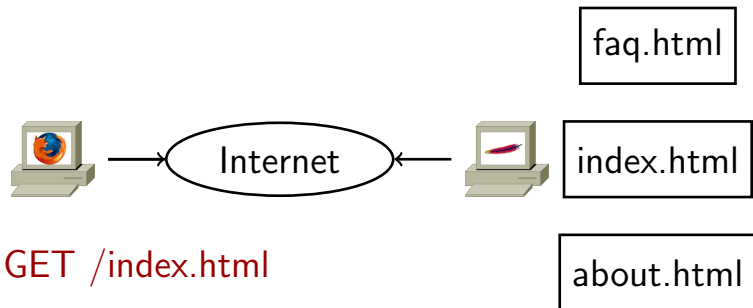
Webolution

1. Stateless and Static
2. State
3. Dynamic
4. Programming Platform

Stateless Static Web

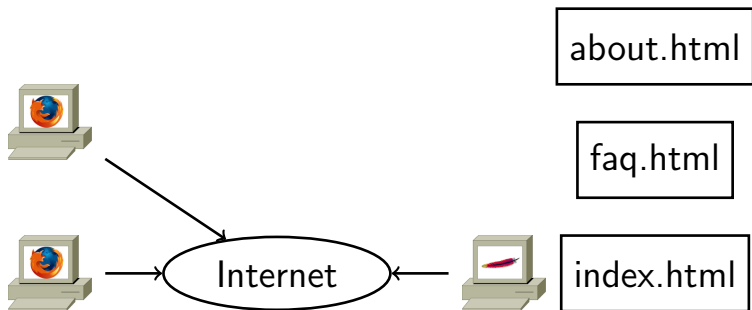


Stateless Static Web

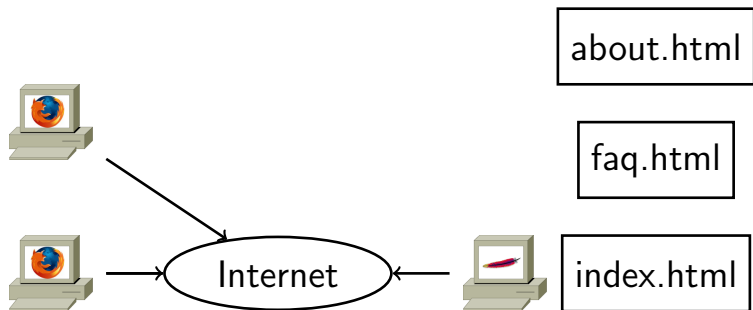




Web with State

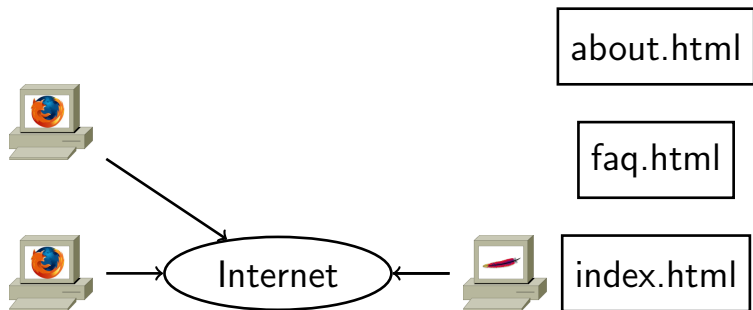


Web with State



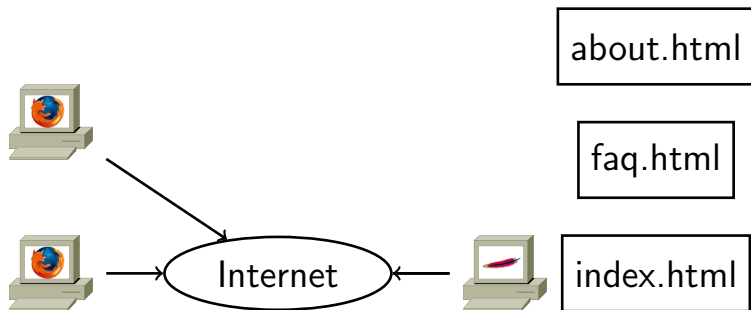
GET /index.html

Web with State



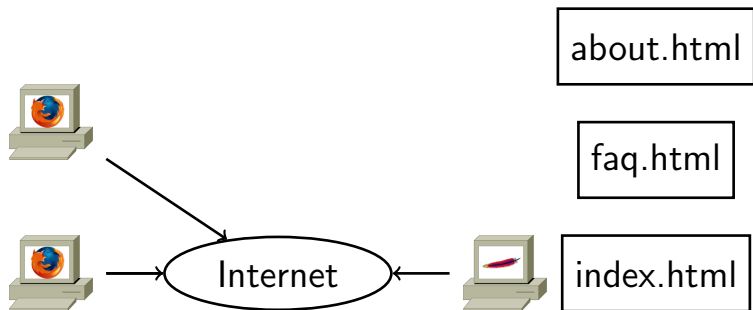
GET `/index.html`

Web with State



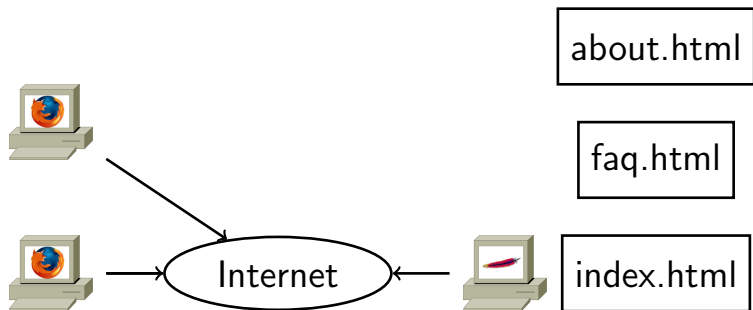
HTML, Cookie: stinky

Web with State



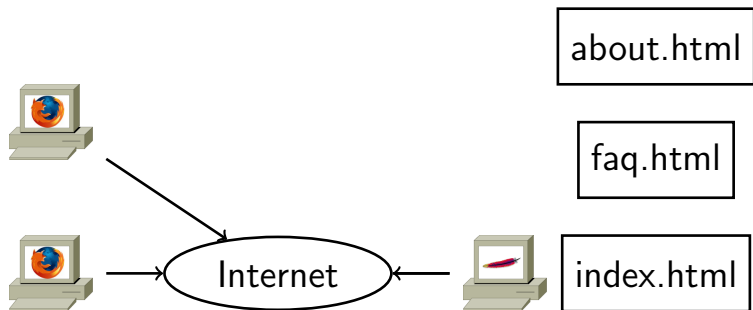
HTML, Cookie: stinky

Web with State



stinky GET /about.html

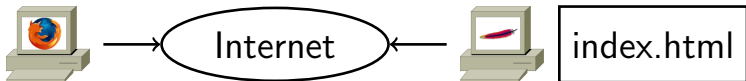
Web with State



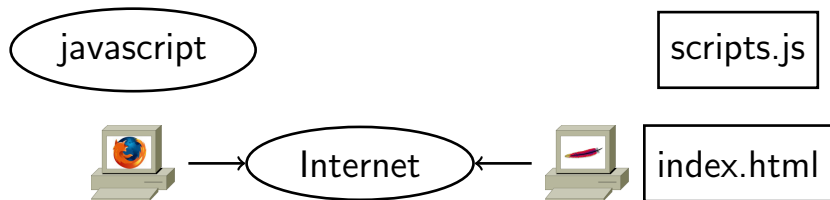
stinky GET /about.html



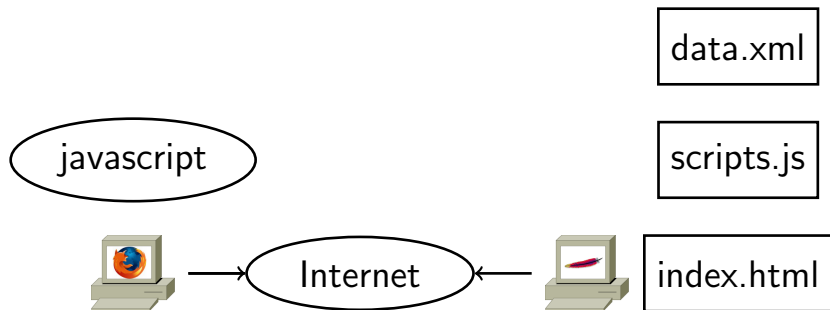
Dynamic Web



Dynamic Web

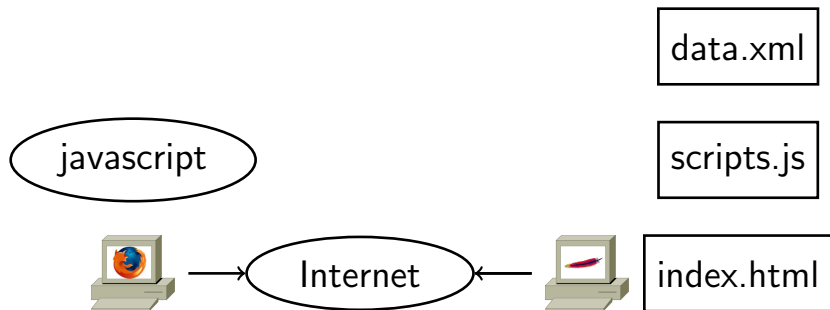


Dynamic Web



XmlHttpRequest /data.xml

Dynamic Web



XmlHttpRequest /data.xml

AJAX

swearingen engineering ctr., columbia, sc - Google Maps - Mozilla Firefox

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maps.google.com

Web Images Video News Maps Gmail more

jmvial@gmail.com | My Profile | Saved Locations | Help | Web History | My Account | Sign out

Google Maps

e.g., "10 market st, san francisco" or "hotels near lax"

swearingen engineering ctr., columbia, sc

Search Maps

Search the map Find businesses Get directions

Search Results My Maps

Text View Map View

Results 1-1 of about 45 for **swearingen engineering ctr., near Columbia, SC** - [Modify search](#)

Categories: [School Colleges & Universities](#), [School Business & Vocational Law](#)

Swearingen Engineering Center - [more info](#)

Unverified listing
301 Main St, Columbia, SC
(803) 777-7555

[See all 45 results for swearingen engineering ctr.,](#)

Map Satellite Hybrid

Swearingen Engineering Center
[Write a review](#) - [more info](#)

301 Main St
Columbia, SC 29208
(803) 777-7555

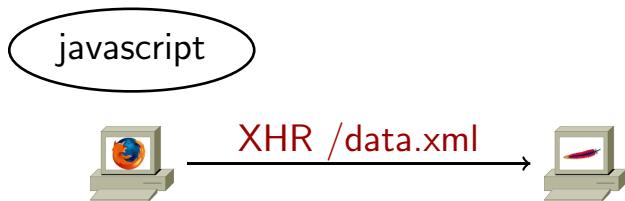
[Get directions](#) - [Search nearby](#)
[Save to My Maps](#) - [Send to phone](#)

©2007 Google - Map data ©2007 NAVTEQ™ - [Terms of Use](#)

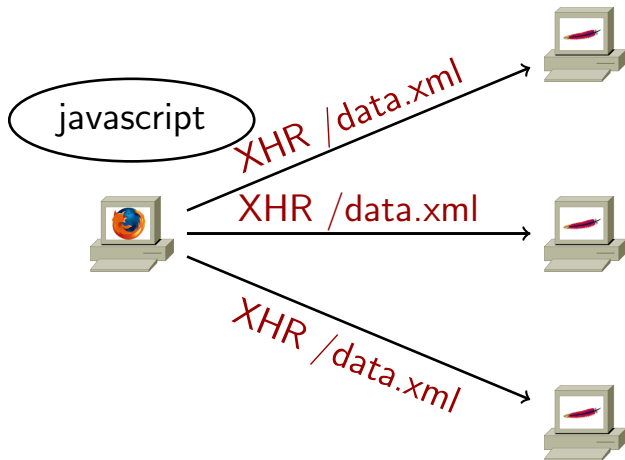
Done

Open Notebook 3 Errors 0:27

Web as a Programming Platform



Web as a Programming Platform



Mashup

Bars in Columbia, SC - Mozilla Firefox

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www.epartyguide.com /main/search?search=bar: ... "first online shoppi

jmvidal career usc books money weather 204 bookmarket todo

epartyguide

browse | events | top rated

Results for 'bars' in Columbia, SC

1. Willy's Bar & Grill ★ Not Rated ★ new review photos events new event map	1200 Lincoln St # B Columbia, SC (803) 799-3111
2. Jake's Bar & Grill ★ Not Rated ★ new review photos events new event map	2112 Devine St Columbia, SC (803) 252-5253
3. Rust Whisky Bar Gill ★ Not Rated ★ new review photos events new event map	918 Gervais St Columbia, SC (803) 933-9383
4. Bar None ★ Not Rated ★ new review photos events new event map	620 Harden St Columbia, SC (803) 254-3354
5. The Hunter Gatherer Brewery &	900 Main St

0.5 km

Data © Navteq, TeleAtlas

©2006 Yahoo! Inc.

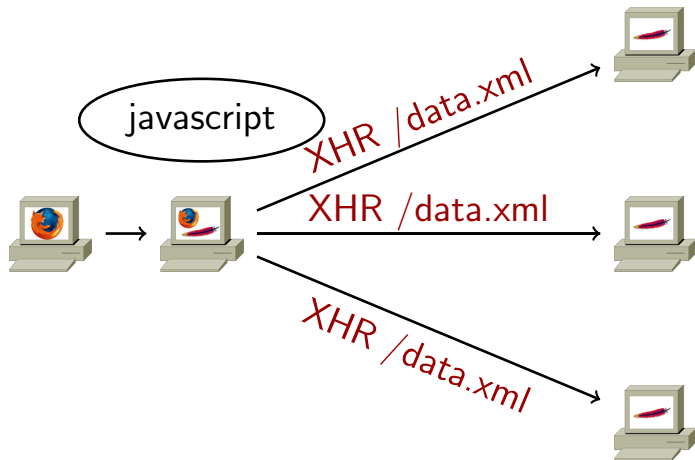
Restaurant
Find listings & reviews for top restaurants in Columbia.
[Columbia.YellowPages.com/Dining](#)

New York Restaurants
Complete New York restaurant guide. Menus.
[Columbia.YellowPages.com/Dining](#)

Done

Open Notebook 0:27

Web as a Programming Platform



Web Services

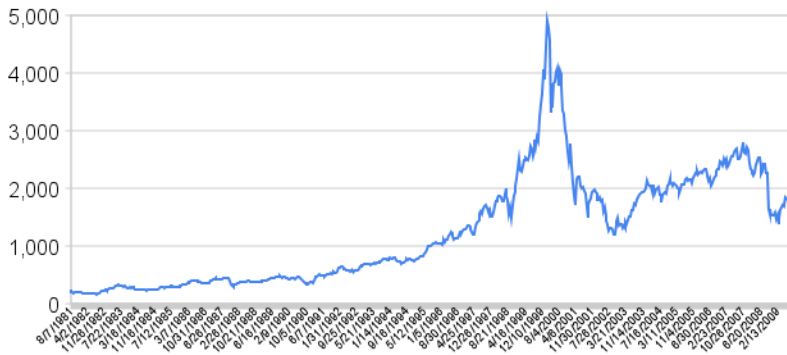
The Future

The future is already here, it is just
unevenly distributed.

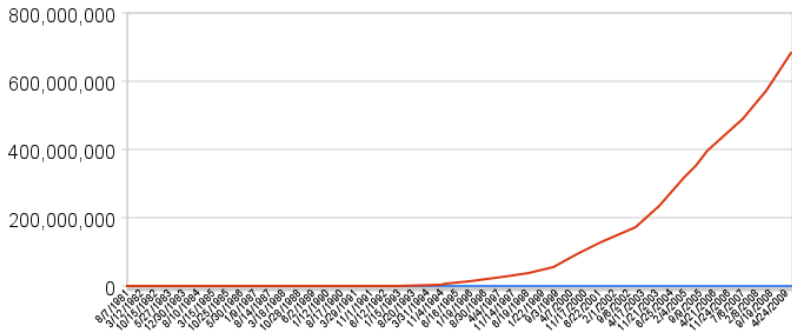
William Gibson

Growth

Nasdaq



Internet Hosts



Web as a Platform



Signed in as Jose Vidal

Home You Organize Contacts Groups Explore

Search everyone's photos Search

Toys

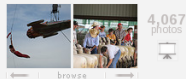
ADD NOTE SEND TO GROUP ADD TO SET BLOG THIS ALL SIZES ORDER PRINTS ROTATE DELETE



Add your comment

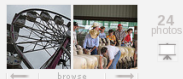
Uploaded on November 1, 2007 by Jose Vidal

Jose Vidal's photostream



This photo also belongs to:

State Fair (Set)



Tags

fair [x]
toys [x]

Add a tag

Additional Information

© All rights reserved (edit)

Place this photo on a map

Flickr: Do more with your photos - Mozilla Firefox



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Do more with your photos!



Thanks to our fabulous partners, you can put your photos on all sorts of things... Books, cards, framed prints and beyond! **See?**



By DavidPitkin

Collage your photos, add text, and then transform them into beautiful posters, books, or personal Photo Cubes. [HP's](#) print services help you better express yourself. Looking for inspiration? Check out [this group](#) to learn and share.








By braydbur

Make bookstore-quality books with [Blurb](#). Add your photos and text to hundreds of professionally designed layouts.


You've got creative control.











By richardmoss

[MOO](#) loves to print beautifully designed products with the photos in your Flickr stream. Share your ideas or see what other people are doing in the [MOO Flickr group](#), then make professional quality StickerBooks, NoteCards and MiniCards of your own.









Done


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Flickr Services - Mozilla Firefox

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http://www.flickr.com/services/api/ future is already here

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 powered by

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Home You Organize Contacts Groups Explore Search everyone's photos Search

Flickr Services

[API Documentation](#) | [Feeds](#) | [Your API Keys](#)

The Flickr API is available for non-commercial use by outside developers. Commercial use is possible by prior arrangement.

Read these first:

- [Overview](#)
- [Encoding](#)
- [User Authentication](#)
- [Dates](#)
- [Tags](#)
- [URLs](#)
- [Buddyicons](#)
- [Flickr API's Terms of Use](#)

- [API Keys](#)
- [Developers' mailing list](#)

Photo Upload API

- [Uploading Photos](#)
- [Replacing Photos](#)
- [Example Request](#)
- [Asynchronous Uploading](#)

Request Formats

- [REST](#)
- [XML-RPC](#)
- [SOAP](#)

API Methods

activity

- [flickr.activity.userComments](#)
- [flickr.activity.userPhotos](#)

auth

- [flickr.auth.checkToken](#)
- [flickr.auth.getFrob](#)
- [flickr.auth.getFullToken](#)
- [flickr.auth.getToken](#)

blogs

- [flickr.blogs.getList](#)
- [flickr.blogs.postPhoto](#)

contacts

- [flickr.contacts.getList](#)
- [flickr.contacts.getPublicList](#)

favorites

- [flickr.favorites.add](#)
- [flickr.favorites.getList](#)
- [flickr.favorites.getPublicList](#)
- [flickr.favorites.remove](#)

groups

http://www.flickr.com/groups/api/ Open Notebook 0:20

CombineNet : Advanced Sourcing Technology - The Optimal Solution - Mozilla Firefox

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COMBINENET CombineNet KK

Home Company Sourcing Solutions Industries Technology Customers Partners News & Events



The Optimal Solution

Features

Aberdeen Group
Benchmark Reports

Transportation & Procurement

CPO's Strategic Agenda

Direct Materials

Advanced Sourcing & Negotiation

Advanced Sourcing

CombineNet's advanced sourcing technologies are delivered via its Advanced Sourcing Application Platform (ASAP), powered by a proprietary combinatorial optimization engine that is the fastest, most robust technology of its kind in the world.

Company News

- 10/30 - CombineNet Sponsoring ProcureCon 2007
- 10/16 - MeadWestvaco Exceeds Transportation Savings Goals with CombineNet Technology

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http://combinenet.com/news_events/webinars/superhero/ Open Notebook 0:20



Sourcing Solutions



Expressive Commerce

ASAP

Commodities

Packaging

Services

Transportation

Custom Events

Professional Services

Standard Services

Education Programs

Analytics Consulting

Custom Events

Managed Services

[FAQs](#)

Expressive Commerce

Expressive Commerce: A New Approach to Sourcing

Advanced sourcing strategies require advanced technologies. CombineNet's optimization-driven Advanced Sourcing Application Platform (ASAP) enables a new, **strategic approach to sourcing**. Expressive Commerce™.

Expressive Commerce is an innovative, technology-enabled business practice which combines the interaction and expressiveness of traditional, face-to-face negotiations with an advanced online capability to **collect and analyze expressive proposals** alongside an organization's business goals and operational constraints.

The result: ASAP delivers the absolute best total cost of goods and services based on the purchasing organization's unique business needs; at the same time significantly increasing the speed and efficiency of the sourcing cycle. This is done not by squeezing the margins of suppliers or by simply automating the bid collection process, but by creating a richer, more **expressive marketplace** between buyers and suppliers.

Buyers express their requirements, constraints, and preferences.

Suppliers express their strengths and capabilities to best meet the buyer's needs.

Expressive

Examples of Supplier Expressiveness

Conditional Bids:

- If I am awarded 80% of this item, I will provide a discount of 20% on these items
- If I am awarded \$28,000 of this location's business, I will provide a discount of 2% on all business awarded

Alternative Bids:

- 22 I can provide a discount of 5% if item A can be of color black
- 23 I can provide a discount of \$750 if lane D can be unloaded via center-underbelly truck

Packed Bids:

- I can provide a discount of 3% if all capacity on lanes X, Y, and Z are awarded to me.
- I can provide a discount of 10% if items A, B, and C are awarded to me.

Facebook | Jose M Vidal - Mozilla Firefox

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facebook Profile edit Friends Networks Inbox home account privacy logout

Search

Applications edit

- Photos
- Groups
- Events
- Marketplace

more

MIT Flyer

Donnie Darko

live on stage

Donnie Darko

Metaphysics. Time travel. And a 6 ft. rabbit named Frank. The live stage adaptation of the cult

Jose M Vidal

Update your status...

Networks:

- South Carolina Faculty
- MIT Alum '90
- Michigan Alum
- Columbia, SC

Birthday:

October 20, 1965

Mini-Feed

FriendFeed

Information

Contact Info

Emails:

- jmvidal@gmail.com
- vidal@sc.edu

Website:

- http://jmvidal.cse.sc.edu
- http://www.multiagent.com

Personal Info

About Me:

I am an associate prof. at USC. I do research in multiagent systems and web services/applications.

Education

Education Info

Grad School:

- University of Michigan '98
- PhD. Computer Science Engineering

Colleges:

- South Carolina
- MIT '90
- Course 6 - Electrical Engineering and Computer Science

My Flickr

Flickr pictures by Jose Vidal | Showing 10 randomly selected photos

View My Flickr Photos

Edit My Profile

You are online now.

South Carolina Friends

Friends in

Networks with the most friends

- South Carolina (4)
- Columbia, SC (4)
- BU (1)
- Drexel (1)
- Philadelphia, PA (1)
- Georgetown (1)
- Pakistan (1)

Networks you belong to

- South Carolina (4)
- Columbia, SC (4)

Show All Networks | View All Friends

Notes

Done

Open Notebook

0:20

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Down and Out in the Magic Kingdom by Cory Doctorow

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OpenSocial - Google Code - Mozilla Firefox

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Code

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The web is better when it's social

The web is more interesting when you can build apps that easily interact with your friends and colleagues. But with the trend towards more social applications also comes a growing list of site-specific APIs that developers must learn.

OpenSocial provides a common set of APIs for social applications across multiple websites. With standard JavaScript and HTML, developers can create apps that access a social network's friends and update feeds.



Many sites, one API

Common APIs mean you have less to learn to build for multiple websites. OpenSocial is currently being developed by Google in conjunction with members of the web community. The ultimate goal is for any social website to be able to implement the APIs and host 3rd party social applications. There are many websites implementing OpenSocial, including Engage.com, Friendster, hi5, Hyves, imeem, LinkedIn, MySpace, Ning, Oracle, orkut, Plaxo, Salesforce.com, Six Apart, Tianji, Video, and XING.

In order for developers to get started immediately, Orkut has opened a limited sandbox that you can use to

How do I start?

1. Review the [OpenSocial API docs](#).
2. Write your first social gadget for [Orkut](#).

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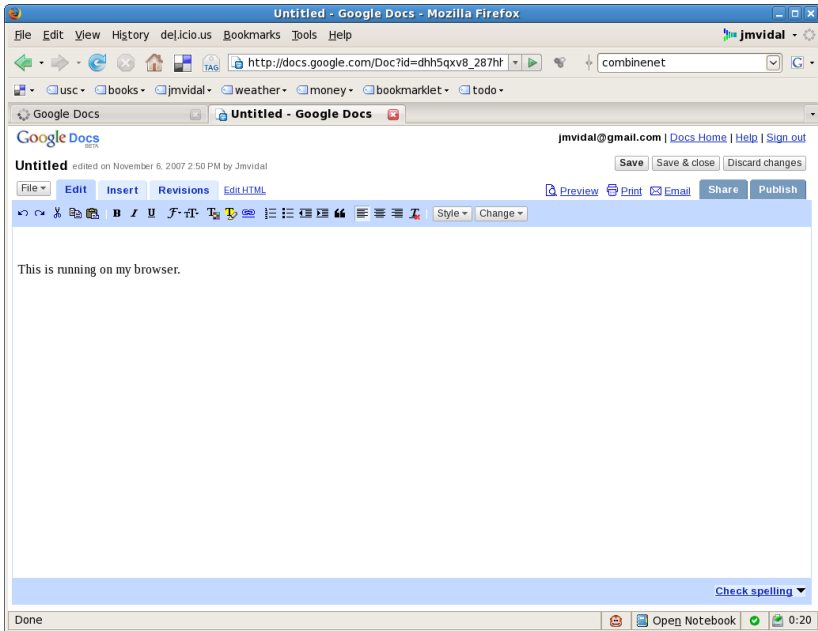


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Add Sheet Sheet1

Done

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```
13 public class SettingsServlet extends HttpServlet {
14     private File users;
15     static final long serialVersionUID = 1;
16
17     public SettingsServlet() {
18         users = Activator.bundleContext.getDataFile("users");
19         users.mkdir();
20     }
21
22     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException
23         String pathInfo = req.getRathInfo();
```

3 problem(s) found in src/org/eclipse/e4/bespin/server
/SettingsServlet.java.

x line 23: The method getRathInfo() is undefined for the type
HttpServletRequest

! line 88: The declared exception ServletException is not actually
thrown by the method doDelete(HttpServletRequest,
HttpServletResponse) from type SettingsServlet

! line 88: The declared exception IOException is not actually
thrown by the method doDelete(HttpServletRequest,
HttpServletResponse) from type SettingsServlet

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Closing Price vs. Number of Internet Hosts

The .com bubble had no effect on the growth of the Internet which continue to grow exponentially.




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Nasdaq vs. Number of Internet Hosts vs. Number of Websites

The .com bubble and subsequent crash has had no effect on the growth of the Internet or the web which continue to grow exponentially.

Featured Data Sets



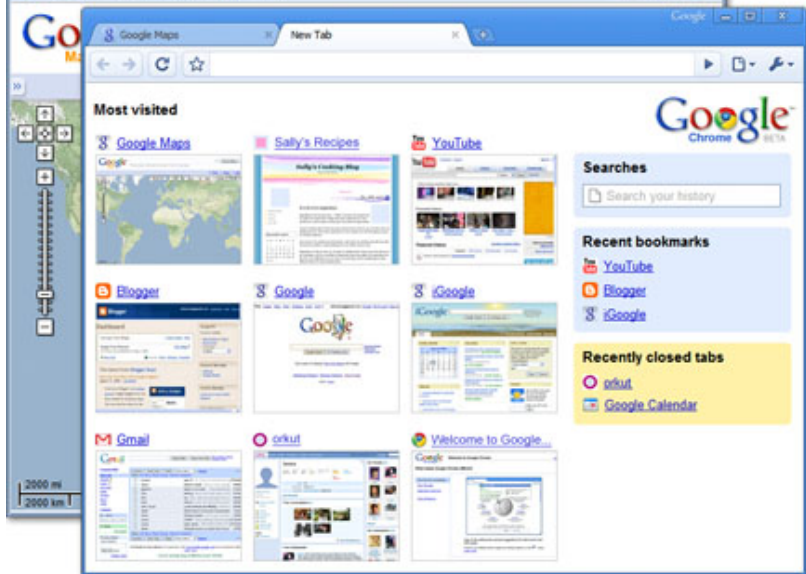
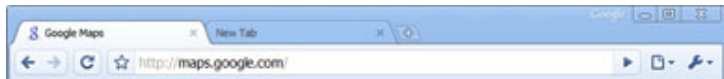
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Number of Internet Hosts

Number of Internet hosts over time.

Done

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Gears

Improving Your Web Browser

Gears is an open source project that enables more powerful web applications, by adding new features to your web browser:



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Store data locally in a fully-searchable database



Run JavaScript in the background to improve performance

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Gears is installed

Current version:
0.5.4.2;official;opt;linux;firefox

Click [here](#) to re-install.

System requirements

- Linux ([details](#))
- Firefox 1.5+
- 32-bit OS (64-bit not supported)

Gears is available for [Windows](#), [Windows Mobile](#), Mac ([Firefox](#), [Safari](#)), [Linux](#) and Android.

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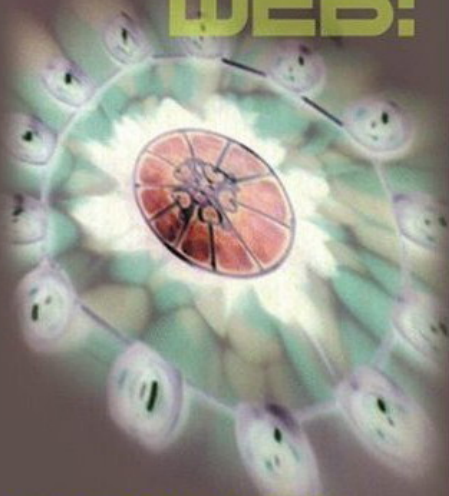
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RDF



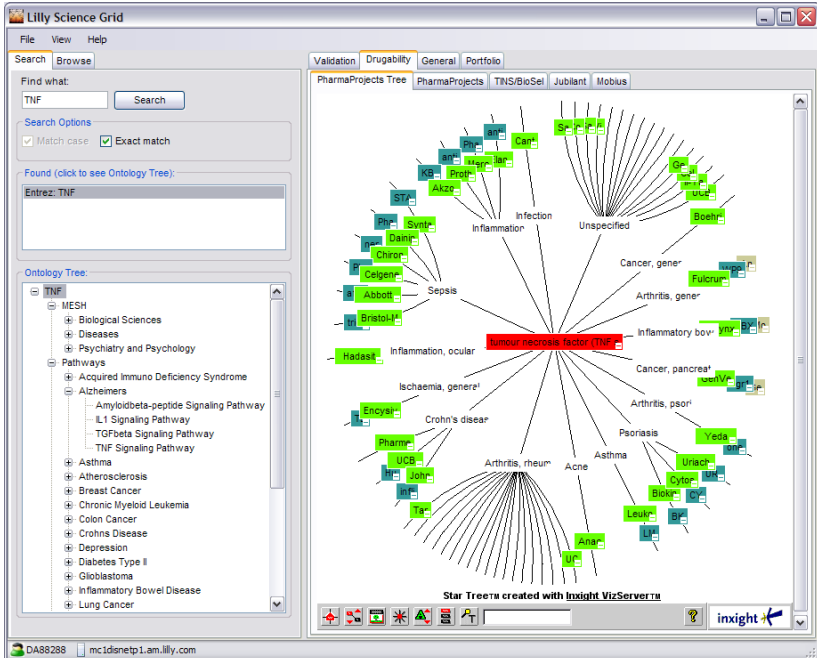


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Facebook helps you connect and stay connected with the people in your life.



twitter

What is Twitter?

What?



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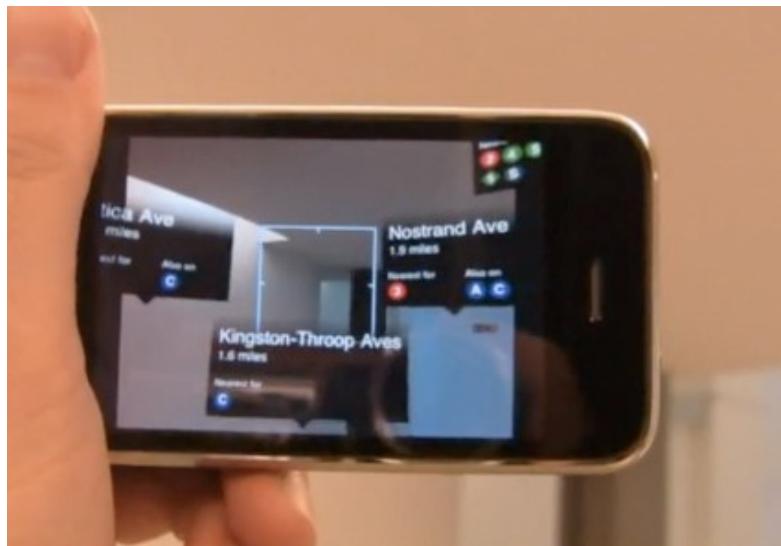




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1 billion computers

3.6 billion mobile
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Cloud Computing







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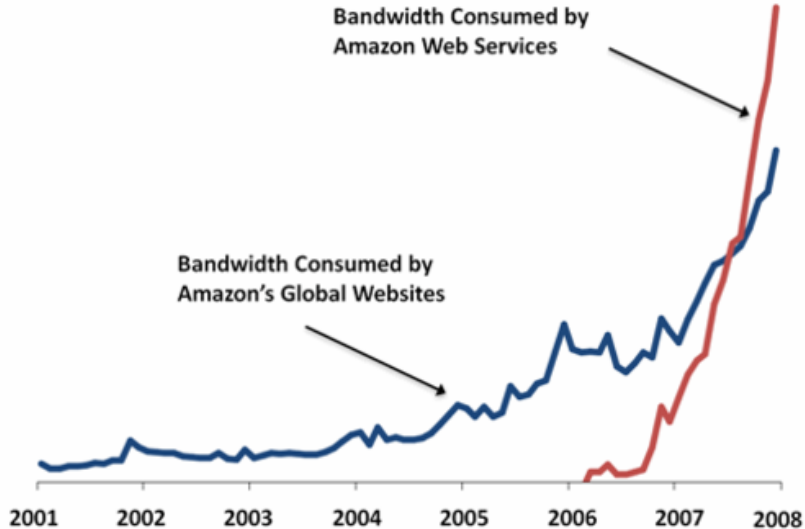
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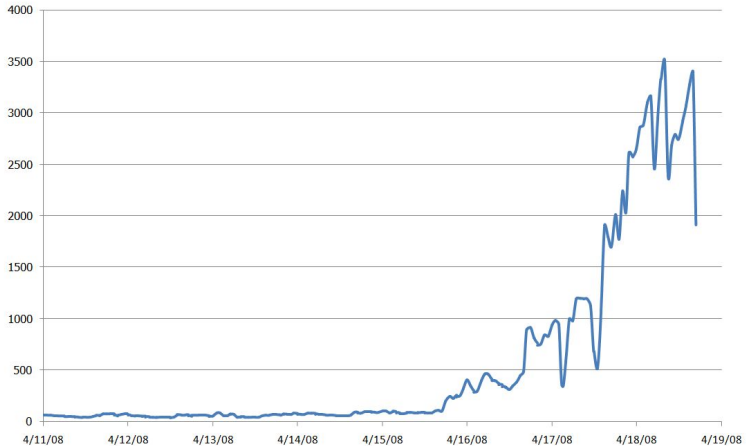
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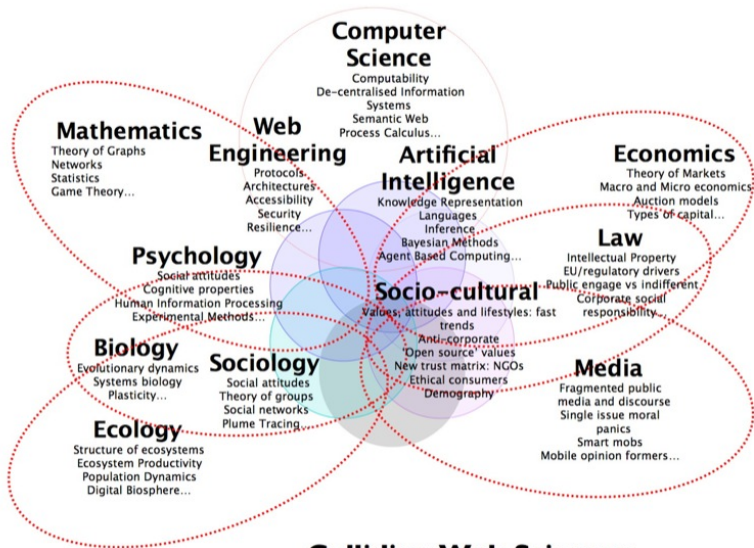
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Animoto: Last Week's EC2 Instance Usage





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Colliding Web Sciences

Conclusion

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- ▶ Exploit services.
- ▶ Exploit pervasiveness.
- ▶ Exploit personalization.
- ▶ Generate new functionality.

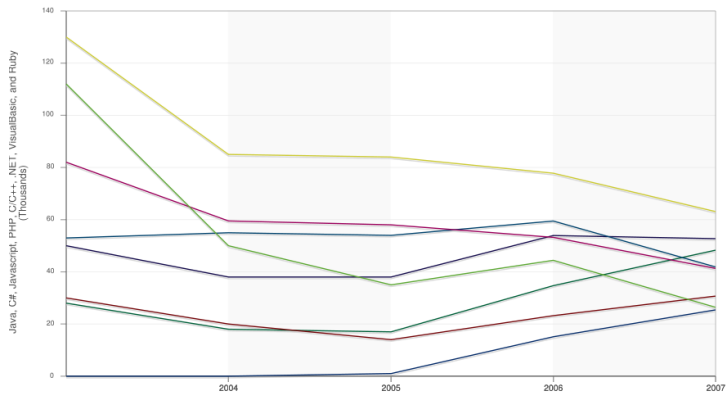
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1. Use the Internet.

How do I Prepare?

1. Use the Internet.
2. Learn to program **well**.

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O'Reilly Radar (http://radar.oreilly.com/archives/2007/05/state_of_the_co_10.html)



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2. Learn to program **well**.
3. Algorithms and math.

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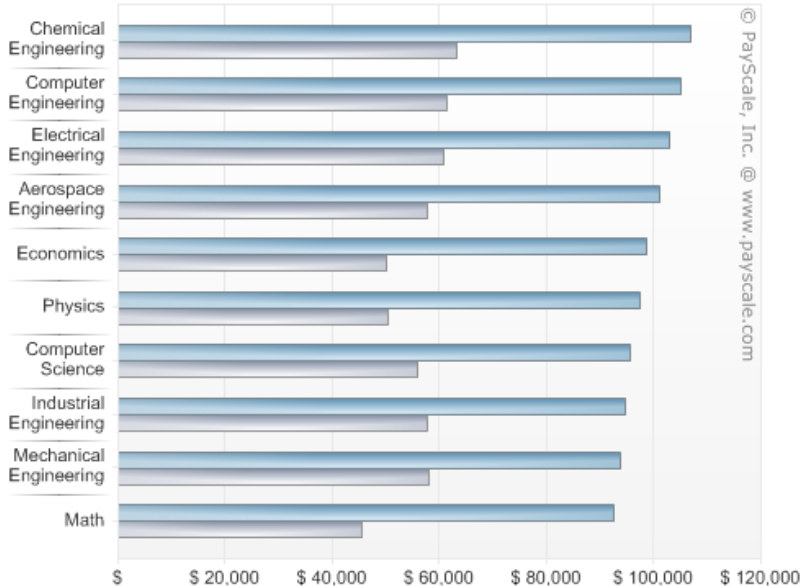
1. Use the Internet.
2. Learn to program **well**.
3. Algorithms and math.
4. Be creative. Imagine.

How do I Prepare?

1. Use the Internet.
2. Learn to program **well**.
3. Algorithms and math.
4. Be creative. Imagine.
5. Put in the hours.

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