LIFE ON THE INTERNET

Basics about networks and the internet
What is a web page
Security
Facebook Groups
Twitter
But First

Class materials at

www.calvin.edu/~pmb4
Basics of the Internet

• What is a network?
• What is the internet?
• What is the world wide web?
• There is a difference!
Local Area Network

A local area network (LAN) is a computer network covering a local area, like a home, office, or group of buildings. Current LANs are most likely to be based on … technology running at 10, 100 or 1,000 Mbit/s.

Ref: http://en.wikipedia.org/wiki/LAN
Wide Area Network (WAN)

WANs are used to connect local area networks (LANs) together, so that users and computers in one location can communicate with users and computers in other locations.

The largest and most well-known example of a WAN is the Internet.

Ref: http://en.wikipedia.org/wiki/Wide_area_network
Media Access Control Address

• The address “burned” into the NIC
• Visible with command ipconfig/all
IP

- IP = Internet Protocol
- Provides the address mechanism.
- Basic format of an IP address is four 3 digit numbers.
- The first set of digits identify the network. The remaining identify the specific computer.
- The MAC address is mapped to the IP address
IP Address

YOUR NAME: PAT BAILEY

YOUR PHONE NUMBER: 616 555 1111

YOUR DNA (YOU)

www.calvin.edu

IP: 153.106.4.123

MAC ADDRESS
Connection to the Internet

- CABLE/DSL MODEM
- Wireless Router
- Connect to Modem
- LAN Ports
- Connection to Network Interface Card
- Your Computer
- MAC
- IP Address
World Wide Web (W3)

The World Wide Web (or the proper World-Wide Web; abbreviated as WWW or W3,[2] and commonly known as the Web) is a system of interlinked hypertext documents accessed via the Internet. With a web browser, one can view web pages that may contain text, images, videos, and other multimedia and navigate between them via hyperlinks.

http://en.wikipedia.org/wiki/World_Wide_Web
What is a web page?

• A document sent over the network.
CALL CLASS FILES

Below are the files we have used for the CALL class. Simply click on a link and the PowerPoint will be provided.

• First Week Fundamentals
• Google Basics
• Excel Spreadsheet
• You and the Internet
• How to get a Google Account

By the way, welcome to my bank

Click here to see my bank: www.fifththird.com
CALL CLASS FILES

Below are the files we have used for the CALL class. Simply click on a link and the PowerPoint will be provided.

<ul>
<li><a href="http://www.calvin.edu/~pmb4/Basics">You and the Internet</a></li>
</ul>

By the way, welcome to my bank

Click here to see my bank:
What is a link?

By the way, welcome to my bank

Click here to see my bank: [www.fifththird.com](http://grub.gunaxin.com/a-tribute-to-mcdonalds-hamburglar/46280)
Now that you know what a link is..;
Identity Theft

- U.S. Theft and Assumption Deterrent Act
- Results from poor stewardship of personal information
- Easy links between birth date and name to SSN
- Greatest occurrence is through paper documents.
- Criminal identity theft
- Synthetic identity theft
A fallen world ...
From: Account Notice  
To: 
Subject: [10] Woodgrove Account Violation

Dear valued Woodgrove member,

In our terms and conditions you have agreed to state that your account must always be under your control or those you designate at all times. We have noticed some activity related to your account that indicates that other parties may have tried gaining access or control of your information in your account.

Therefore, to prevent unauthorized access to your Woodgrove Internet Banking account, you are limited to five failed login attempts in a 24-hour period. You have exceeded this number of attempts.*

Please follow the link below and renew your account information:


Phishing
Sent By: “Wachovia Bank” <customer_service@wachovia.com>

On: Jan 01/27/10
3:27 PM

Dear Customer,

You have one new message at Wachovia.

INBOX

From: Customer Service
Date: 01/27/2010
Subject: Official service renewal notification.

In order to read the message click here to login at Wachovia and access your MAIL section.

URL: http://www.ejcho.info/bbs/update/

This site provides information about and access to financial services offered by the Wachovia family of companies, including Wachovia Bank and Wachovia, N.A., members FDIC.
Some Key Phrases

- Verify your account
- If you don’t respond within 48 hours, your account will be closed
- Dear valued customer
- Click the link below to gain access to your account

https://www.woodgrovebank.com/loginscript/user2.jsp

A Secure Web Page (https)

You are connected to

chase.com

which is run by

(unknown)

Verified by: VeriSign, Inc.

Your connection to this web site is encrypted to prevent eavesdropping.
What makes Google Great (Simplified)

- It starts with Googlebot: Google's Web Crawler
- The Web Crawler feeds the page to computers at Google
- The content of those pages are indexed
- Google will visit sites more often if they are updated.
## An Index

<table>
<thead>
<tr>
<th>Word</th>
<th>Website</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>be</td>
<td><a href="http://www.hamlets.com">www.hamlets.com</a></td>
<td>2, 6</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.sandwich.com">www.sandwich.com</a></td>
<td>1, 7, 8, 9</td>
</tr>
<tr>
<td>not</td>
<td><a href="http://www.apolitical.org">www.apolitical.org</a></td>
<td>4, 9, 300</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.hamlets.com">www.hamlets.com</a></td>
<td>4, 310</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.votenow.org">www.votenow.org</a></td>
<td>222, 540</td>
</tr>
<tr>
<td>or</td>
<td><a href="http://www.abccar.com">www.abccar.com</a></td>
<td>6,265,420</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.hamlets.com">www.hamlets.com</a></td>
<td>3, 24, 800</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.pat.com">www.pat.com</a></td>
<td>789,237</td>
</tr>
<tr>
<td>to</td>
<td><a href="http://www.hamlets.com">www.hamlets.com</a></td>
<td>1, 5, 14,…</td>
</tr>
</tbody>
</table>

*To be or not to be …*

```
1  2  3  4  5  6
```
A. Query sent
B. Query received
C. Parse: Break down the individual words
D. Search index
E. Rank the pages
F. Internet
What makes Google Great (Simplified)

• In short, PageRank is a “vote”, by all the other pages on the Web, about how important a page is.
• A link to a page counts as a vote of support
Simple Search

cinnamon roll recipe

About 2,470,000 results (0.09 seconds)

Overnight Cinnamon Rolls Recipe: Alton Brown: Food Network
www.foodnetwork.com › Recipes › Baking
★★★★★ 387 reviews - 11 hrs 45 mins
3 days ago – Food Network invites you to try this Overnight Cinnamon Rolls recipe from Alton Brown.

Cinnamon Rolls Recipe: Paula Deen: Food Network
www.foodnetwork.com › Recipes › Baking
★★★★★ 360 reviews - 1 hr 50 mins
3 days ago – Food Network invites you to try this Cinnamon Rolls recipe.
You can fill in the blank with an "and the * red glare"
Excluding a word with a minus (-)

"star * banner" –spangle -spangled

About 3,960,000,000 results (0.37 seconds)

Columnists | Michigan a big hit with two-sport star Zach Banner of ...

detnews.com/.../Michigan-a-big-hit-with-two-sport-star-Zach-Banner...  
Oct 13, 2011 – Michigan has the nation's No. 1 recruiting class, according to Scout.com. In order to hang on to that spot, the Wolverines will have to score big ...

Shpongled – Star Shpongled Banner – Video, listening & stats at Last ...

www.last.fm/music/Shpongled/_/Star+Shpongled+Banner  
Watch the video & listen to Shpongled – Star Shpongled Banner for free. Star Shpongled Banner appears on the album Shpongled Remixed. The core members of ...
OR   literally   OR

Tom Selleck OR Peters

About 27,600,000 results (0.10 seconds)

Tom Peters
www.tompeters.com/
tompeters.com: digital home of business author and speaker Tom Peters. His blog, videos, books, slides, free stuff, and more!
Tom's Books - Event Slides - Tom's Videos, etc. - Contact Us

tompeters! Tom's bio
www.tompeters.com/toms_world/press_kit/who_is.php
Tom's Bio. "Tom Peters [is] the Red Bull of management thinkers. If the ...

Show more results from tompeters.com

Tom Selleck - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Tom_Selleck
Thomas William "Tom" Selleck (born January 29, 1945) is an American actor, and film
Synonym with ~

~"Holy book"
Who Called?

Phonebook: 616-301-8926

Search

About 220 results (0.09 seconds)

Everything

(616) 301-2100 | WhitePages (6163012100)
phones.whitepages.com/616-301-2100

Images

... (616) 301-8715; (616) 301-8739; (616) 301-8760; (616) 301-8868; (616) 301-8901; (616) 301-8912; (616) 301.

Maps

Barbara Egeler - Phone number 616-301-8926 -
www.peoplebot.com/.../PeopleBot?...616-301-8926

Videos

None
Calculations

(20 * 9 / 5) + 32

Search

Everything

More

More about calculator.
Website most often showing up
Google Accounts

- Email accounts are free
- Document tools freely available.
Google Documents

• Allow you remote access to documents.
• Allow you to collaborate by sharing the document.
Demonstration

SELECT Documents
Share the document

SELECT Comments ➔ Share

More ➔ patbly@comcast.net ➔ gear

Help

All changes saved

11pt B I U A ➔ 

产业园аний
References

• http://www.google.com/help/faq_filetypes.html
• http://www.googleguide.com/google_works.html
The number of Hosting sites

World Internet Hosts: 1981 - 2009 (Data Source: ISC
https://www.isc.org/solutions/survey/history)
Social Networking
What is a social Network

A social networking service is an online service, platform, or site that focuses on building and reflecting of social networks or social relations among people, who, for example, share interests and/or activities. A social network service consists of a representation of each user (often a profile), his/her social links, and a variety of additional services. Most social network services are web-based and provide means for users to interact over the Internet, such as e-mail and instant messaging.

http://en.wikipedia.org/wiki/Social_networking_service
Twitter

• Mini blogging
• Blogs are called "tweets"
• Limit 140 words
Hashtags

Hashtags: helping you find interesting Tweets
People use the hashtag symbol # before relevant keywords in their Tweet to categorize those Tweets to show more easily in Twitter Search. Clicking on a "hashtagged" word in any message shows you all other Tweets in that category. Hashtags can occur anywhere in the Tweet. Hashtagged words that become very popular are often Trending Topics.
#friendship

Results for #friendship

FRIENDSHIP Friendship
And I had no idea what I had been missing until I finally found it.
#Friendship
11 Nov

patbly patbly
#friendship it's important. Let's see how many will comment.
17 seconds ago

Chellajai Chelsea Jean
youtube.com/watch?v=cBtFTF…! oh my goodness i'm dying
#friendship
Privacy Settings
Groups
Share with the important groups in your life.

Create a private space
Have things you only want to share with a small group of people? Just create a group, add friends, and start sharing. Once you have your group, you can post updates, poll the group, chat with everyone at once, and more.

Share different things with different people
Groups let you share things with the people who will care about them most. By creating a group for each of the important parts of your life — family, teammates, coworkers — you decide who sees what you share.
Setting up an FB Group

Create Group

Group Name: Pat's Play Reading Friends

Members: Barbara Egeler-Bailey

Privacy: Open
- Anyone can see the group, who's in it, and what members post.

Create Group Cancel
Patrick M Bailey created the group.

Like · Comment · Unfollow Post · a few seconds ago
Create Events

Pat's Play Reading Friends ▶ Create Event

Event Name: Read New Play
Date and Time: 11/14/2011 4:00 pm Add end time
Location: Pat Bailey's House
Details: Snacks will be served.
Who's Invited: Select Guests
- Invite Members of the host group Pat's Play Reading Friends
- Make this event public (anyone can see and join)
- Show the guest list on the event page

Create Event
Maybe. Maybe Not.

- Facebook games
  - Often they request personal information
  - Sometimes can be more intrusive than you want
- "See who has been following you...." and other such messages with a link to click on.
  - These messages may actually be leading you into a malicious piece of software
- Report the "story" as spam
Resources

https://www.dropbox.com/
How can you protect yourself?

- Keep private information private
  - Do not post address, ssn, phone number, financial info, your schedule, full birth date
  - Be careful not to display information used to answer security questions (e.g., favorite pet, mother’s maiden name)

- Use caution when you click links
- Be careful about installing extras on your site
- Be wary of unknown friends (strangers)
- Google yourself
- Don’t blindly connect
- Trust your gut instinct