LECTURE 9
THE GEOSPATIAL REVOLUTION

GEOG181
our digital earth

fall 2014
TRADITIONAL MEANS OF MAPPING

LOCATION OF USER AND INTERFACE

LOCATION OF DATA BEING ACCESSED

LOCATION WHERE DATA IS PROCESSED

THE AREA THAT IS THE FOCUS OF THE MAP
GEOWEB MEANS OF MAPPING

- Location of user and interface
- Location where data is processed
- Location of data being accessed
- The area that is the focus of the map
You in the map

“On a mobile device you are the center of the earth and the city is around you, not you see a city and look for yourself on the map. Its putting you in the map.”

Michael Jones
Chief Technologist at Google Earth
The Internet

A system of interconnected computer networks across the globe.
Three Original Functions

1. e-mail
2. Usenet News
3. Telnet
The World Wide Web
World Wide Web

A system of interlinked hypertext documents and applications that can be accessed over the Internet mainly by using HTTP.
Hypertext

Text on a computer that allows one to connect from one document to another by simply clicking on the text with a mouse.
Welcome! First-time users reg

The New York Times

Tuesday, November 12, 1996

LATE NEWS UPDATE

Two Aircraft Collide In Air Near Delhi, Killing About 350

IN CYBERTIMES

Europe Betting on Self-Regulation to Control the Internet

Crowds Looking for Food in Zaire
Senate Leaders at Work on Plan to Avoid ‘Fiscal Cliff’
By JONATHAN WEISMAN
A bipartisan group is coalescing around an ambitious three-step process to avert a series of automatic tax increases and deep spending cuts facing the country in January.

JPMorgan Unit Is Sued Over Mortgage Securities Pools
By GRETCHEN MORGENSON
New York’s attorney general, under the aegis of a federal task force, filed suit against

CRITIC’S NOTEBOOK
New Breed of Hunter Shoots, Eats and Tells
By DWIGHT GARNER
Four young memoirists, including “Meat Eater” author Steven

OPINION »
EDITORIAL
Spanish Protests, German Prescriptions
Self-defeating measures such as higher taxes, wage freezes and spending cuts are not the answers to Europe’s economic malaise.

MARKETS »
At 1:01 AM ET

JAPAN
Nikkei 8,804.72 +8.21 +0.09%

CHINA
HangSeng 20,840.38 Closed for holiday

Shanghai 2,086.17 Closed for holiday

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The Web 2.0

Internet-based applications that are focused on the sharing and dissemination of information through collaborative means on the web.
The Web 2.0

COLLABORATION
INFORMATION SHARING
USER DESIGNED
INTEROPERABILITY
Big Data
How does all this affect mapping on the web?
Web Mapping

• Sharing of maps on the internet from organizations to individual users
• Main classification was between dynamic and static maps
Web 2.0 Mapping

Some vendors provided query services that would provide for detailed spatial information.
Open Street Map

• A large web-based project to create a digital map of the world
• Users contribute data using GPS points and aerial photography
• Provides a full history of revisions to each area
• Uses GIS editing tools for modifying features
• Over 400,000 registered users (according to website)