



Introduction to AJAX

Bringing Interactivity & Intuitiveness Into Web Applications

By : Bhanwar Gupta
SD-Team-Member
Jsoft Solutions



Applications today

- **You have two basic choices: Desktop applications and Web applications**

Desktop applications

- ✓ It usually come on a CD and install completely on your computer.
- ✓ The code that runs these applications resides on your desktop.
- ✓ It is usually pretty fast, has great user interfaces and is incredibly dynamic.

Web applications

- ✓ It runs on a Web server and you access the application with your Web browser
- ✓ It provides services you could never get on your desktop
(think about Amazon.com and eBay).
- ✓ waiting for a server to respond, waiting for a screen to refresh,
waiting for a request to come back and generate a new page.

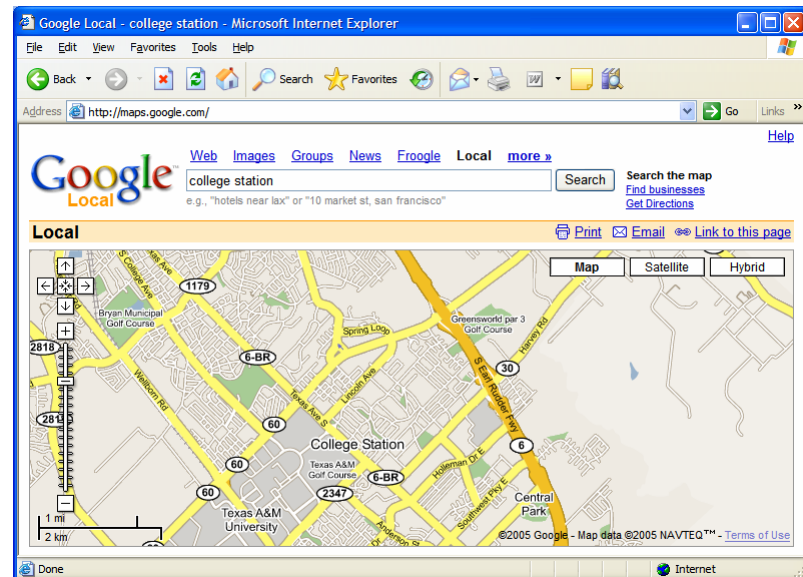
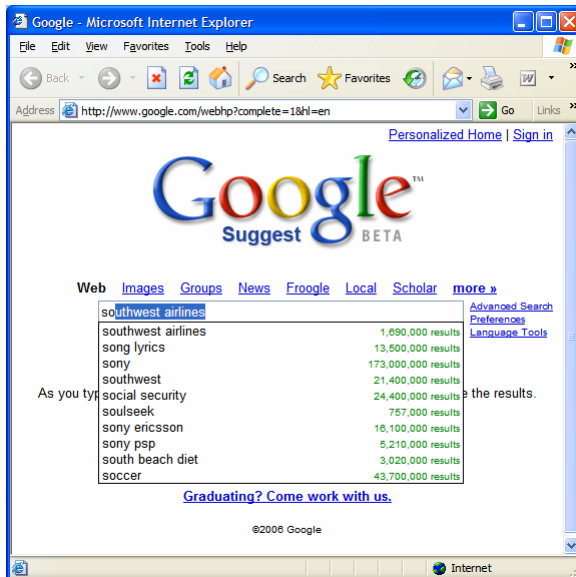
☺ Ajax attempts to bridge the gap between the functionality and interactivity

What is AJAX ?

- A Web development technique for creating interactive web applications

Intension

- ✓ Shift a great deal of interaction to the Web surfer's computer
- ✓ Used to retrieve data and update selected parts of the page without refreshing the entire page
- ✓ Example: Google Suggest, Google Maps



☺ Increase the Web page's interactivity, speed, and usability; better user experience

The "birth" of Ajax

THE WALL STREET JOURNAL.

© Dow Jones & Company, Inc. All Rights Reserved.

VOL. CCXXXIII NO. 116 E/P/R ***

THURSDAY, APRIL 1, 2004

Internet Address: <http://wsj.com>

3/31/05: Google Pioneers Use of Old Microsoft Tools in New Web Programs

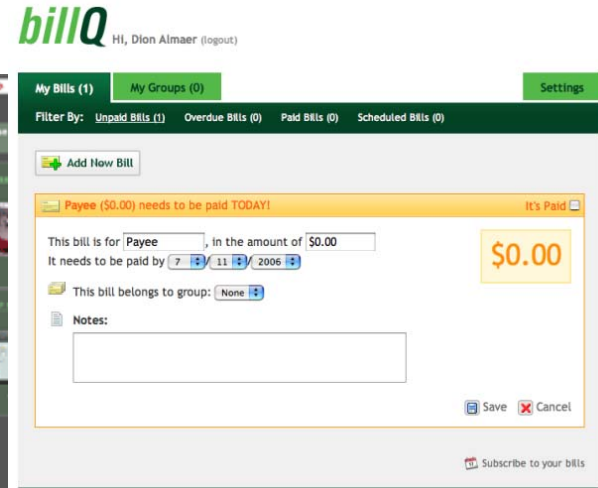
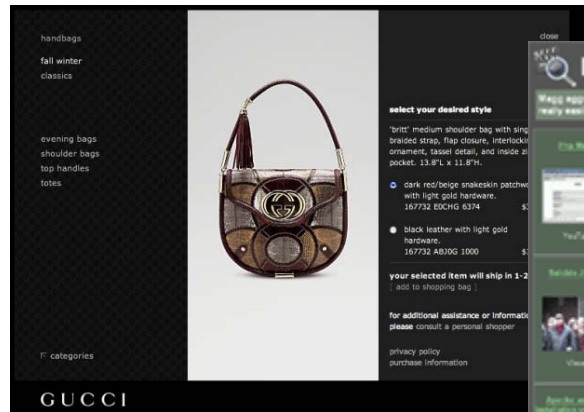
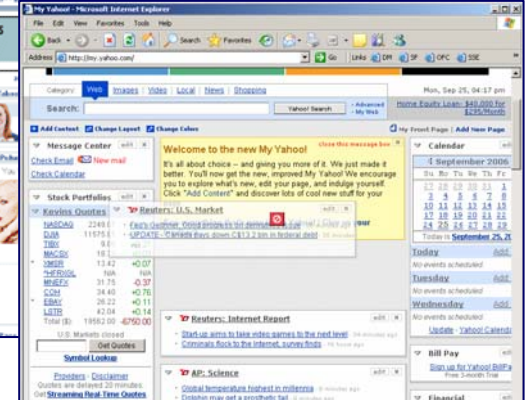
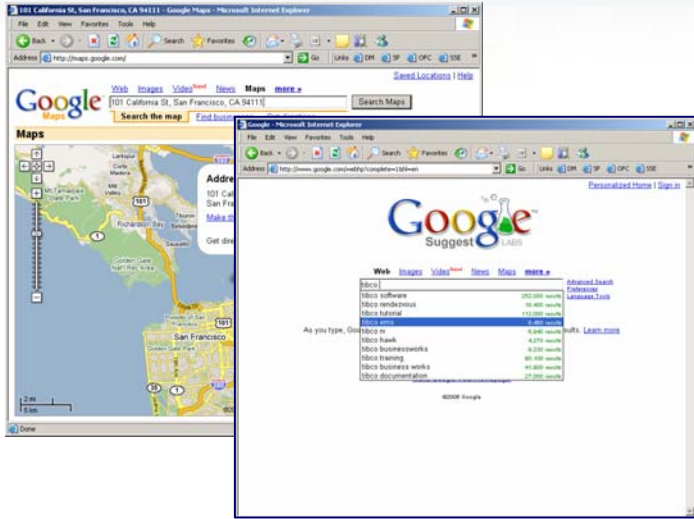
“Ajax”

“a big step toward
of having the kind
responsiveness
programs that's
only with desktop

5%. And according to a press release, Adam Smith

The image shows a composite of two web pages. The background is a screenshot of Google Maps. The search bar contains 'starbucks' and 'alexandria, va'. The search results show 'Starbucks Coffee: Alexandria' at '532 King St, Alexandria, VA (703) 836-2236'. A map of Alexandria, VA, is displayed with a red pin marking the Starbucks location. The foreground is a screenshot of the Flickr website. It shows a calendar for April 2006 with a grid of photo thumbnails. A pop-up window is open over the date 'April 22nd 2006', displaying a grid of six photos: a sunset, a cow, a panda, a birthday cake, a cow in a field, and a jellyfish. Below the photos, it says 'You are looking at some of the interesting photos from April 22nd 2006.'

Ajax Enriched HTML Pages



Google™

Suggest BETA

[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [Desktop](#) [more »](#)

ajax	
ajax	3,840,000 results
ajax amsterdam	502,000 results
ajax fc	710,000 results
ajax ontario	275,000 results
ajax grips	8,860 results
ajax football club	573,000 results
ajax public library	40,500 results
ajax football	454,000 results
ajax soccer	27,000 results
ajax pickering transit	1,700 results

[Advanced Search](#)
[Preferences](#)
[Language Tools](#)

As you type, Google

results. [Learn more](#)

Wow..I didn't know soccer teams did web programming..

Technologies

- **You might already know the components of Ajax**

XHTML (or HTML) and CSS

- ✓ Marking up and styling information

DOM accessed with a client-side scripting language

- ✓ Dynamically display and interact with the information presented

XMLHttpRequest object

- ✓ Exchange data asynchronously with the web server

XML

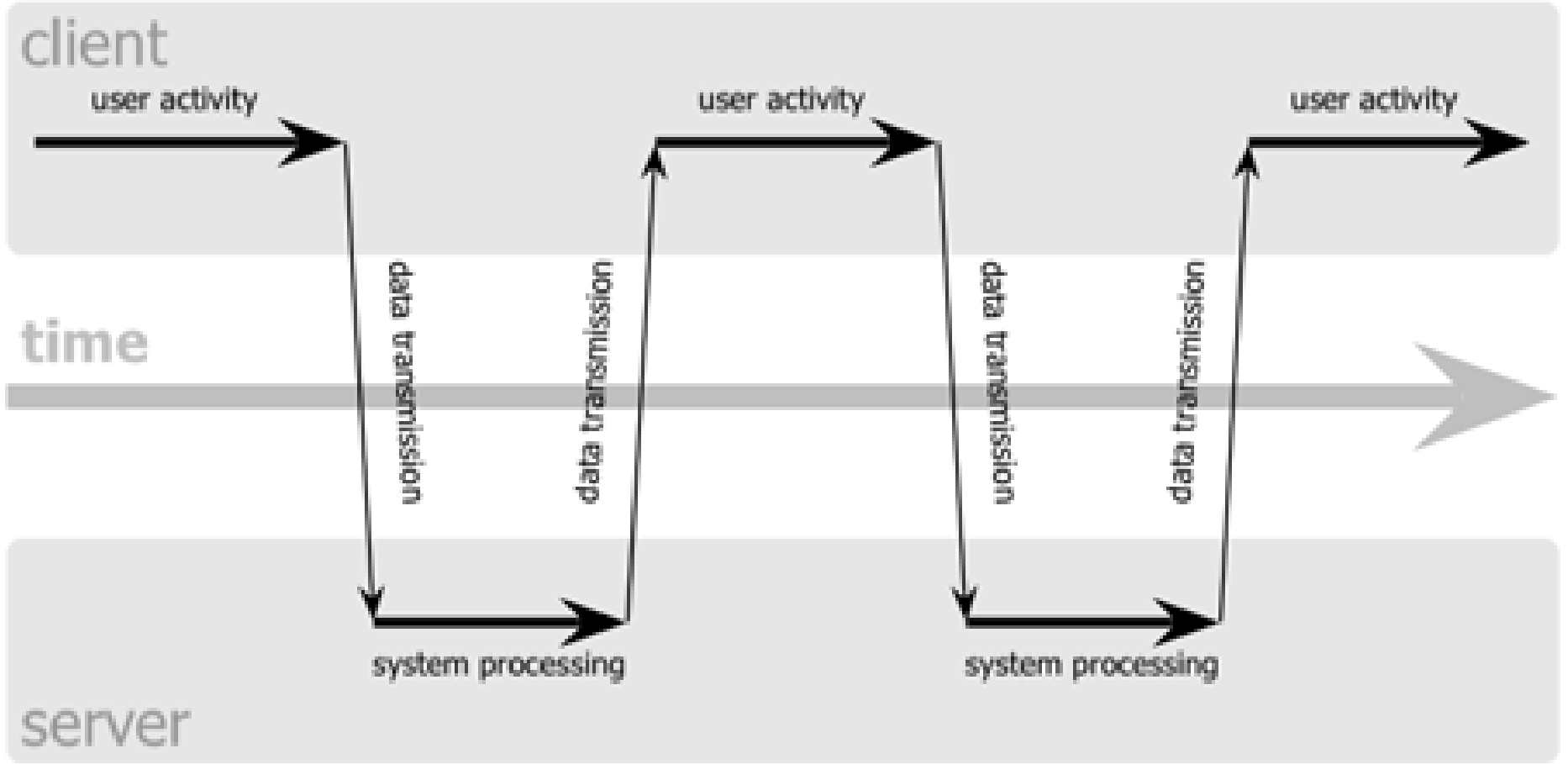
- ✓ Format for transferring data

Why Do I Care About AJAX?

- **Enables building Rich Internet Applications (RIA)**
- **Allows dynamic interaction on the Web**
- **Improves performance**
- **Real-time updates**
- **No plug-ins required**

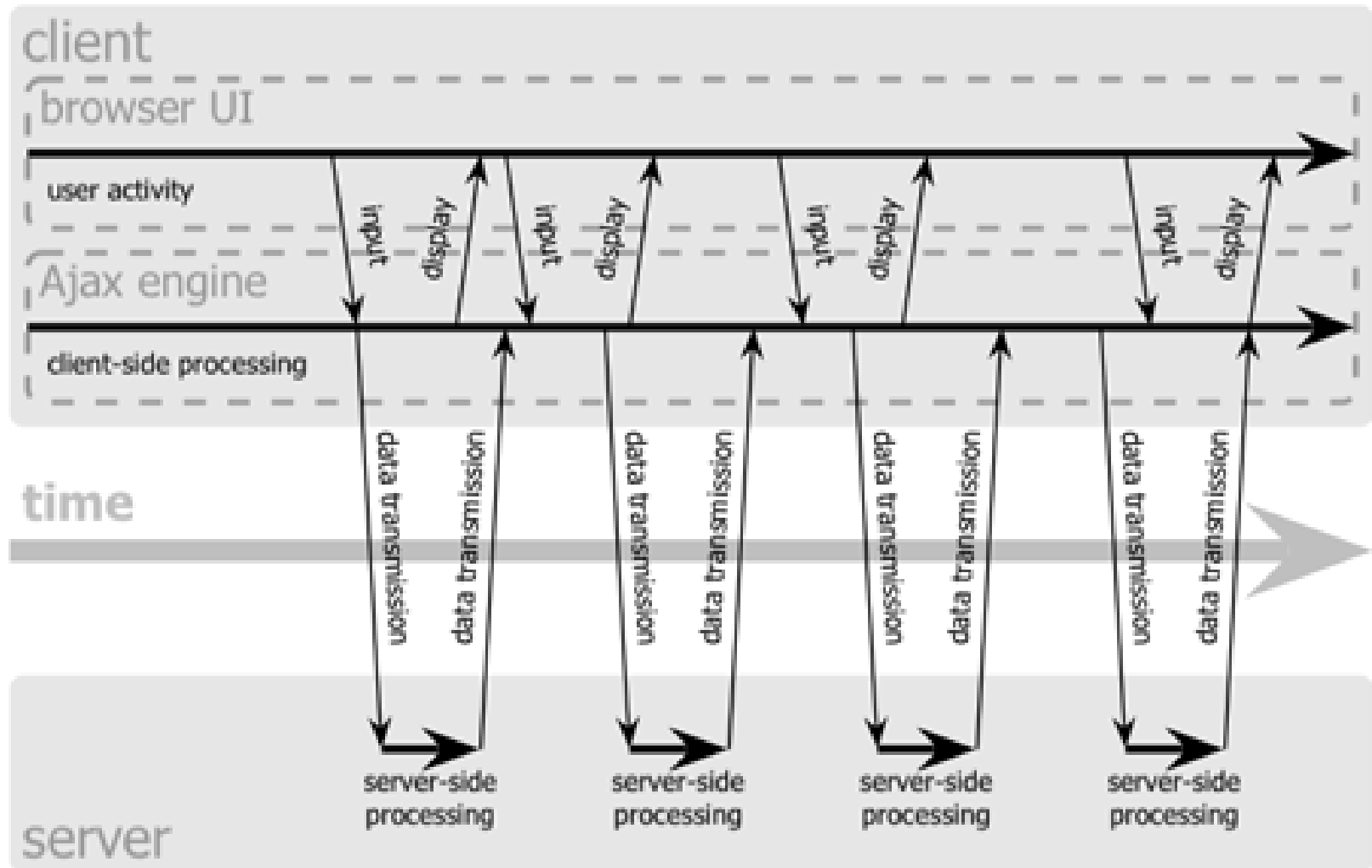
Classic Web Application Model

classic web application model (synchronous)



Ajax web application model

Ajax web application model (asynchronous)



Thank You for previewing this eBook

You can read the full version of this eBook in different formats:

- HTML (Free /Available to everyone)
- PDF / TXT (Available to V.I.P. members. Free Standard members can access up to 5 PDF/TXT eBooks per month each month)
- Epub & Mobipocket (Exclusive to V.I.P. members)

To download this full book, simply select the format you desire below

