

Mozilla, Open Source, and Future of the Internet

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Mozilla

Firefox[™]

Outline of Presentation

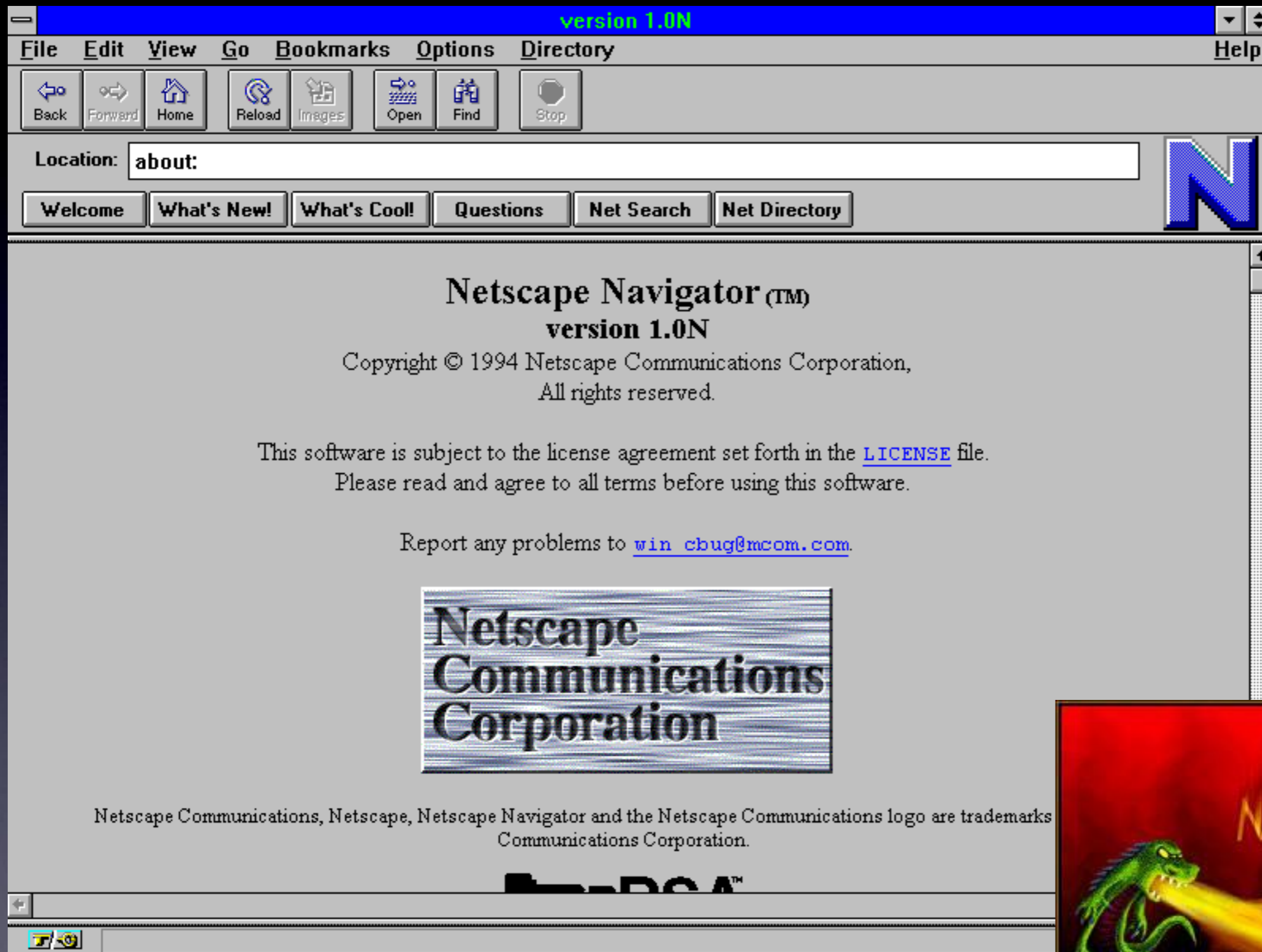
- What Is Mozilla
- Why Is Mozilla “Successful”
- What Are Important to Mozilla and the Future of the Internet

Mozilla Is ...

- A global effort to promote choice and innovation on the Internet;
- The foremost advocate for users on the Web;
- An open source project with thousands of contributors;
- The maker of the Firefox Web browser and the Thunderbird email client;
- ...

Mozilla Is a Product

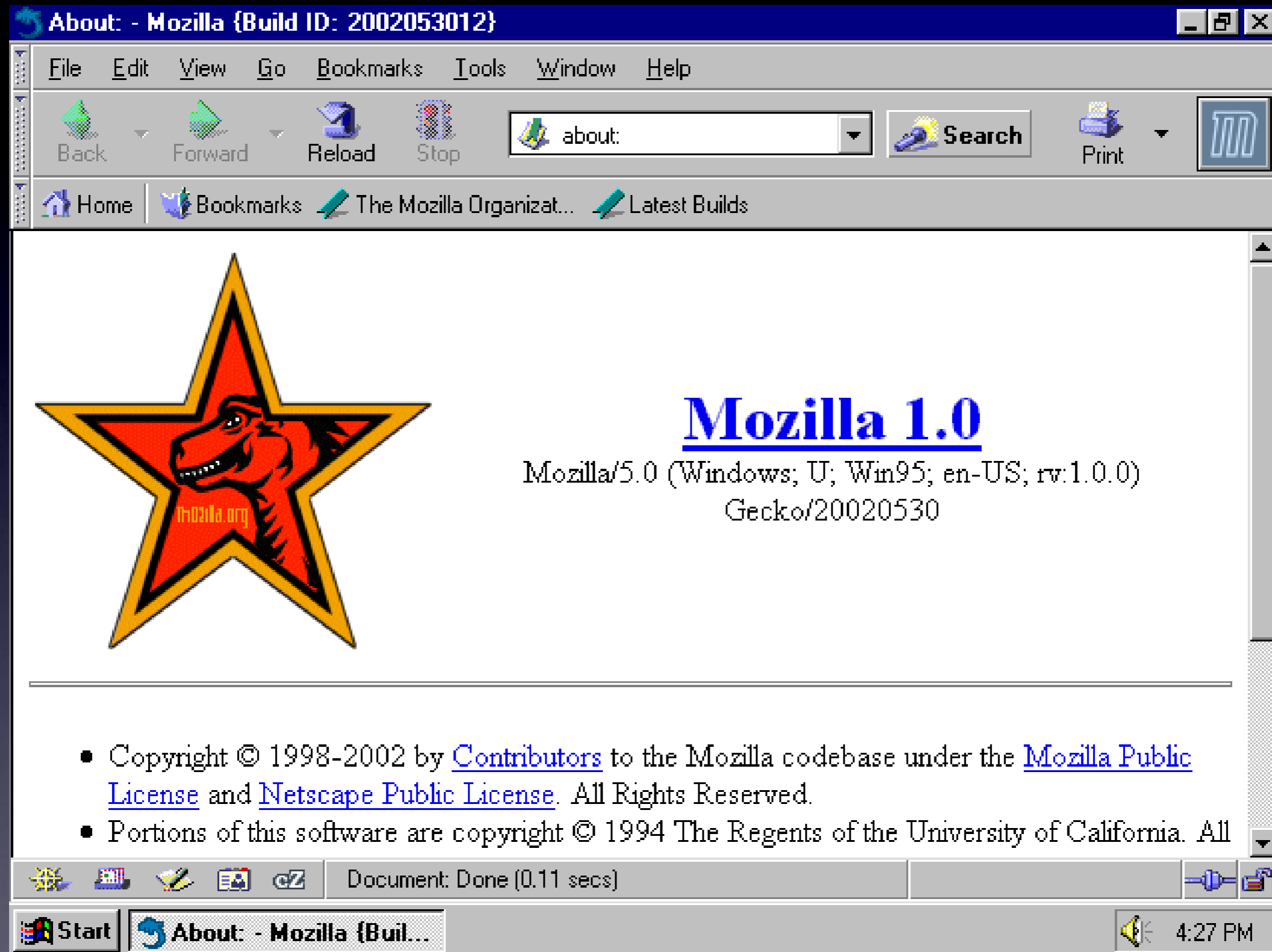
1994: Netscape Navigator 1.0 release



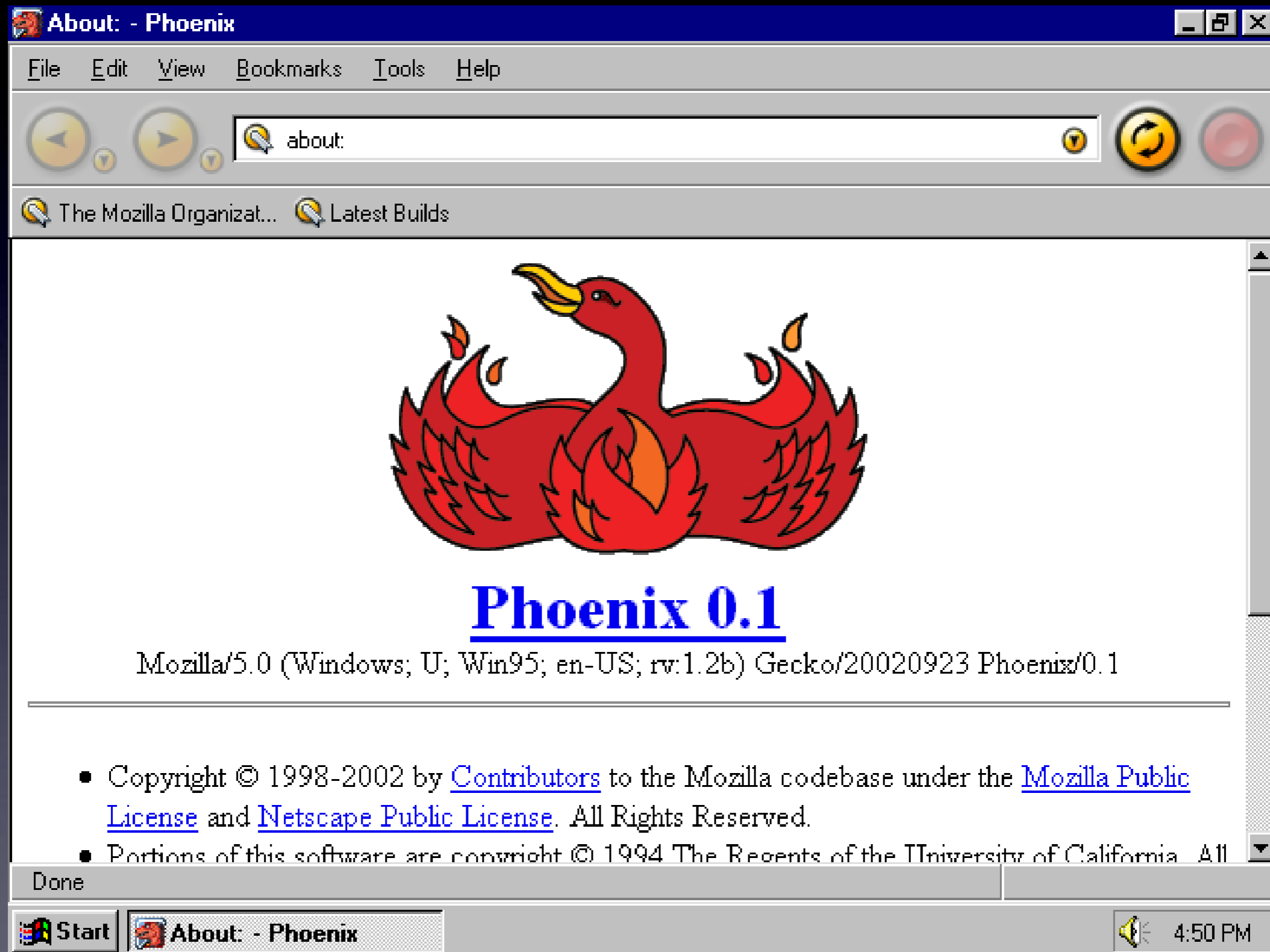
1997: Netscape Navigator 4.0 ... and ...



1998: Open Source/2002: Mozilla 1.0



2002: Phoenix 0.1



2003: Mozilla Foundation

November 2004: Firefox 1.0

10 million downloads in the first 30 days!



10/24/2006: Firefox 2.0



Firefox

- Award-winning Web Browser
- Features
 - Integrated search
 - Popup blocking
 - Tabbed browsing
 - Auto-updating
- Based on 10+ years of work from Netscape



User Experience

- Tabbed Browsing
- Built-in Search
- Form Spell Checking
- Web Feeds



Browser Customization

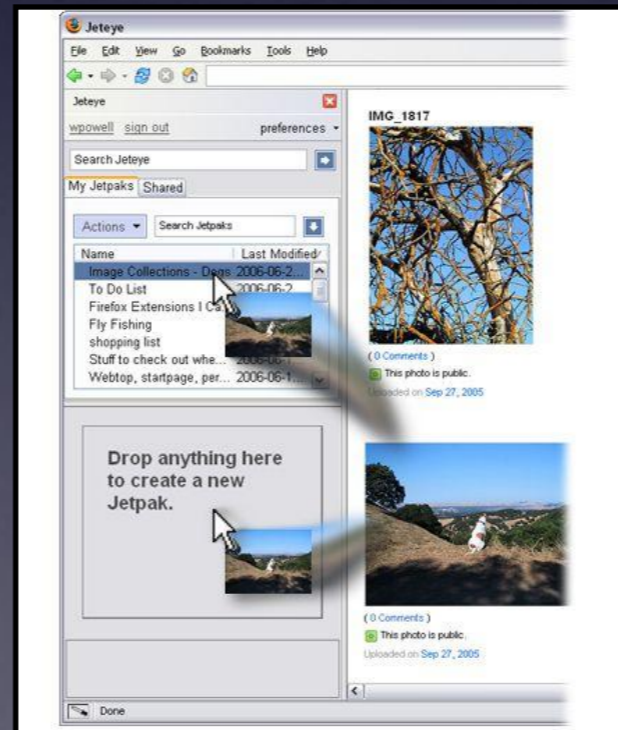
- Add-ons let you add your favorite search engines, feed readers, themes, and functions
- 3,000+ Firefox add-ons such as:



Content Discovery



Shopping Tools



Bookmarks Extras



Blog Integration

“Browser Customization” Video

Security

- Fastest response time of any vendor
- Phishing Protection & Popup Blocking

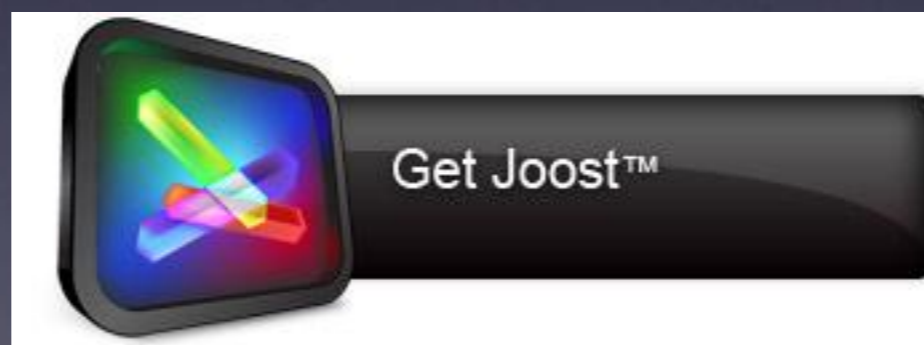
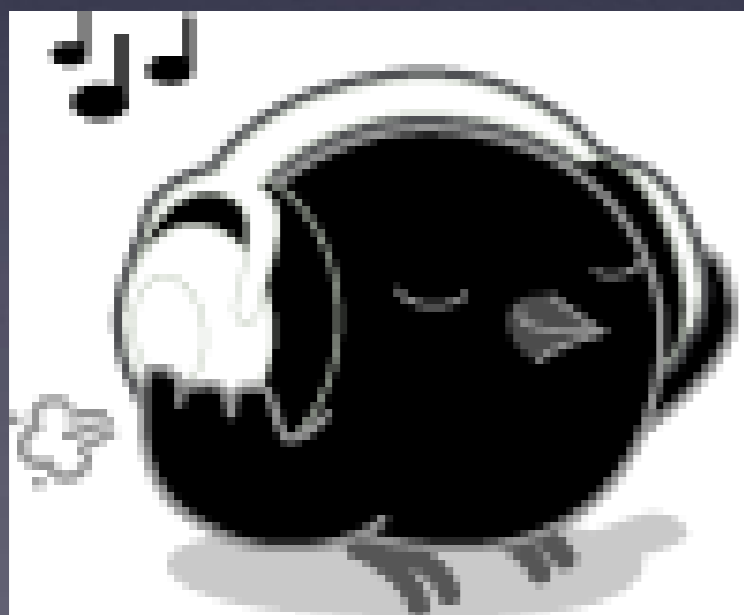
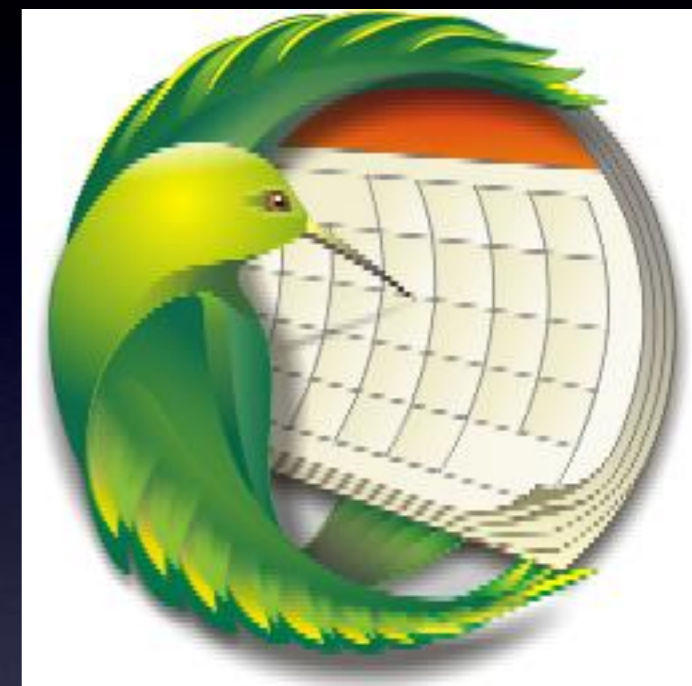


Fewer Days at Risk

- In 2006, Firefox users were at risk for 9 days
- MSIE & MSIE-based browser users at risk for **284** days
- “at risk” defined as exploits disclosed but unpatched

Internet Explorer Vulnerabilities in 2006				
KEY: Browser vulnerability publicly disclosed Browser vulnerability actively exploited				
December 2005	Dec. 27: MS06-001 (CVE-2005-4560) - 0day in Windows Metafile Format (WMF). Patch issued Jan. 5.			
January 2006		Jan. 7: MS06-004 (CVE-2006-0020) - Proof of concept for Windows Metafile Format flaw. Patch issued Feb. 14.		
February 2006				
March 2006			Mar. 16: MS06-013 (CVE-2006-1245) - Proof of concept exploit for IE Microsoft Internet Explorer 6.0.2900.2180 (mshhtml.dll). Patch issued Apr. 11.	Mar. 22: MS06-013 (CVE-2006-1359) - Proof of concept exploit for Microsoft Internet Explorer 6 and 7 Beta 2. Patch issued Apr. 11.
April 2006				
May 2006	May 31: MS06-043 (CVE-2006-2766) - Proof of concept exploit for MHTML Parsing Vulnerability in IE. Patch issued Aug. 8.			
June 2006				
July 2006		July 18: MS06-043 (CVE-2006-2766) - Proof of concept code for Microsoft Internet Explorer 6 on Windows XP SP2 (setslice).		
August 2006			Aug. 27: MS06-067 (CVE-2006-4446) - Proof of Concept exploit for Microsoft Internet Explorer 6.0 SP1 (DIRECT ANIMATION). Patch issued Nov. 14.	
September 2006	Sept. 18: MS06-057 (CVE-2006-3730) - IE 0day Vector Graphics Rendering engine (vgx.dll), as used in Microsoft Outlook and Internet Explorer 6.0. Patch issued Sept. 26.			Sept. 13: MS06-067 (CVE-2006-4777) - 0day flaw in Internet Explorer 6.0 SP1 (daxctle.ocx). Patch issued Nov. 14.
October 2006			Sept. 26: Exploited in the wild. Patch issued Oct. 10.	
November 2006	Oct. 24: CVE-2006-5559 - ADODB.Connection 2.7 and 2.8 ActiveX control objects in Internet Explorer 6.0 Unpatched.		Nov. 3: MS06-071 (CVE-2006-5745) - 0day: IE-related (not installed by default on Windows). Patched Dec. 14.	
December 2006				

Mozilla Is A Platform



Firefox

Thunderbird

XULRunner

SeaMonkey

Camino

Sunbird and
Lightning

Embedding

...

The Mozilla Platform

Toolkit

Extension Manager, Update, Moz Storage, Spell Checking, Brakepad Crash Reporting, ...

Content

Layout

XUL

XML User Interface Language

XBL

XML Binding Language

SVG

Scalable Vector Graphics

DOM

Document Object Model

CSS

Cascading Style Sheets

HTML and XML Parser

NSS / PSM

Network Security Services, Personal Security Manager

XPCOM

Cross Platform Component Object Model

XPCoconnect

Bridges JavaScript and XPCOM

JavaScript

NSPR

Netscape Portable Runtime: Cross Platform API for System Level Functions

Necko
Network Library

Widget
Event Handling and Windowing

GFX / Thebes
Graphics

Cairo
Graphics

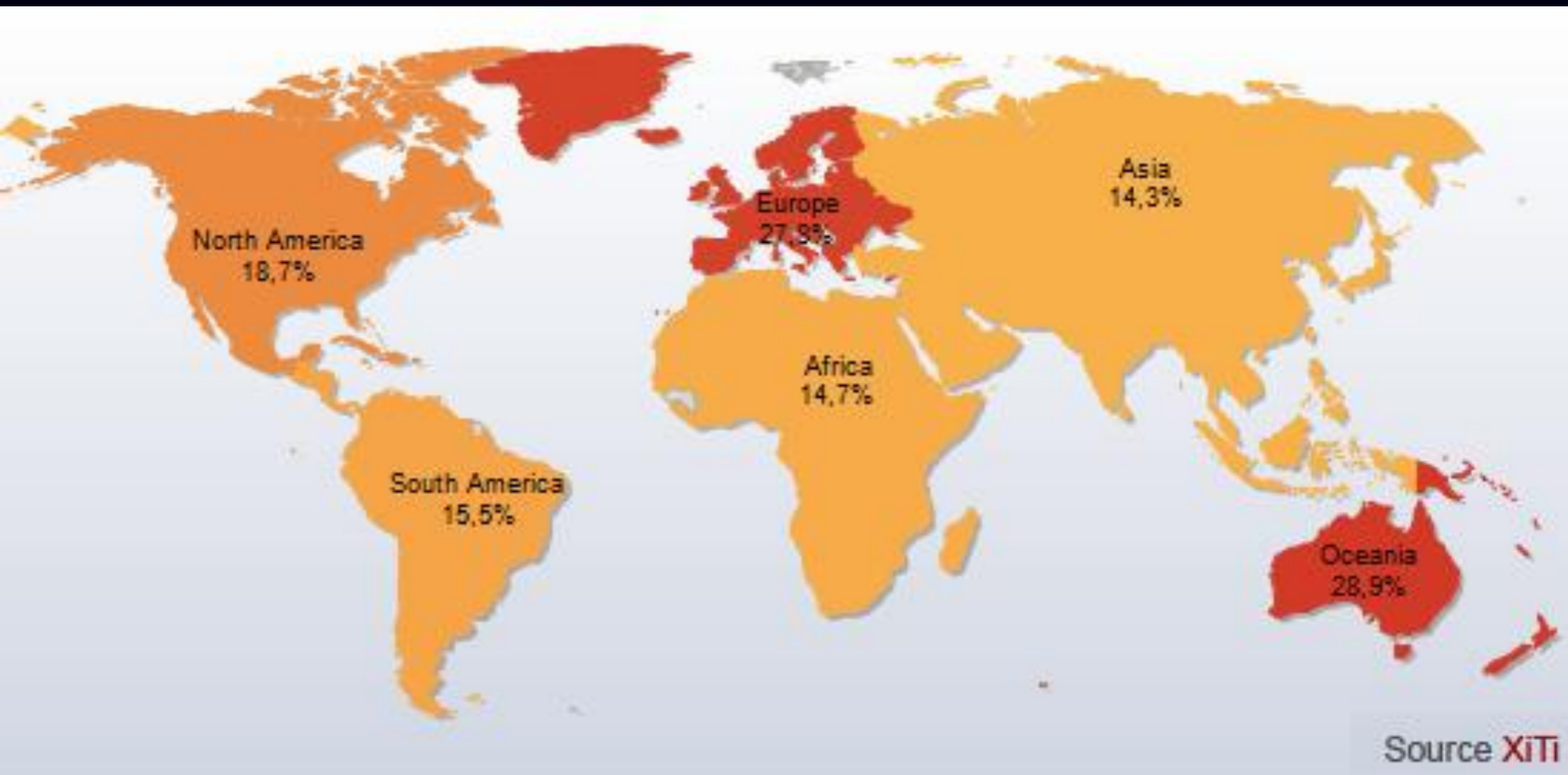
SQLite
Storage

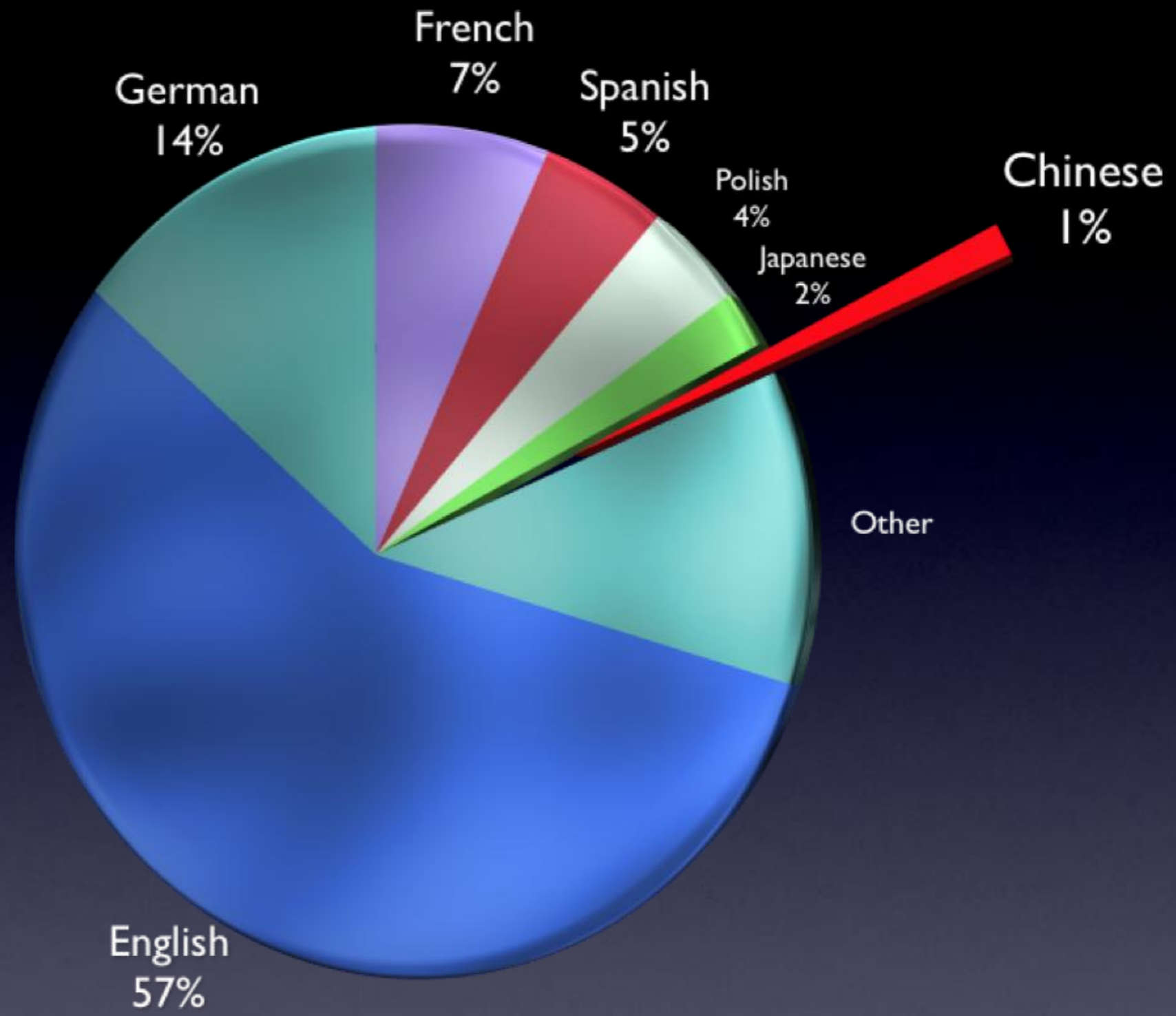
Mozilla/Firefox Is Real

- 120+ Million users worldwide
- 3,000+ community-contributed add-ons
- 44 language localizations
- 1,000+ contributors to code base
- thousands of volunteers & evangelists
- fewer than 100 employees
- 600,000 Firefox downloads, over 2.1 terabytes of data, and 25 million update requests, *per day*, in 2006

“Mozilla Is Hot” Video

Market Share





% of Firefox Users

Mozilla Is an Organization

- Mozilla Foundation
- Mozilla Corporation (Mountain View, California)
- Mozilla Europe
- Mozilla Japan
- Mozilla Online Ltd. (谋智网络, Beijing, China)
- The “Thunderbird” company (new)

Mozilla Is a Community

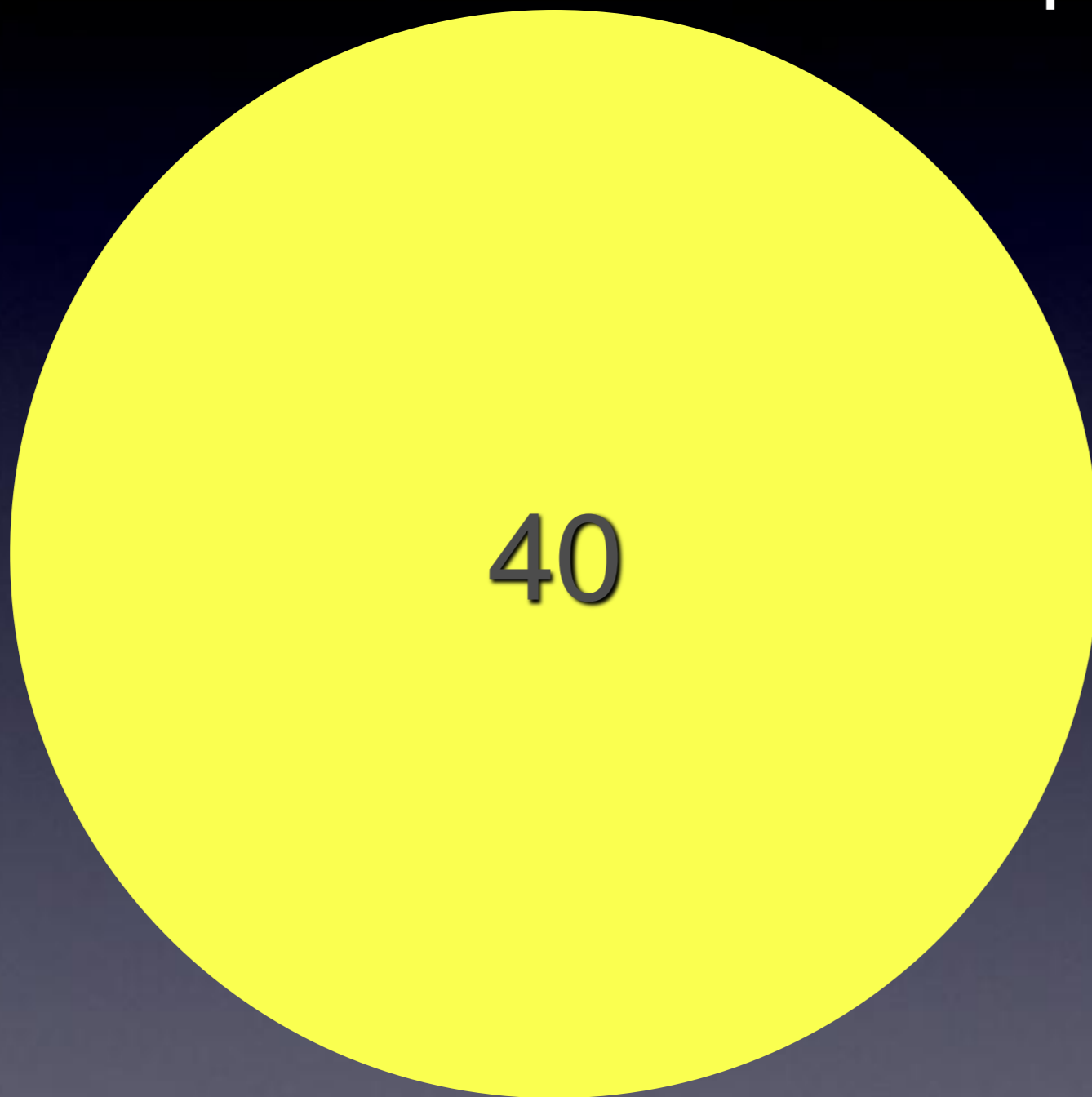


Me



Me

Mozilla Corporation
Development Team





Me

Mozilla Corporation
Development Team



Daily
Contributors





Mozilla Corporation
Development Team

40

100s

Daily
Contributors

Contributors

1000s

Daily
Contributors



Contributors

Nightly
testers

10,000s

Daily
Contributors

Contributors

Nightly testers

10,000s

Beta testers

500,000

Contributors

Nightly testers

Beta testers

500k

Daily users

(approx 100M)

Killer Weapon: Our Community



Mozilla

FirefoxTM

- 30-40% new code come from the community
- Firefox 3 in early 2007
- Firefox 4 in 2008

Ways to Get Involved

- Use Firefox
- Spread the word
spreadfirefox.com
- Give us feedback
- Write an Add-on
developer.mozilla.org
- Become a contributor



Why Is Mozilla “Successful”

- Goals for public benefit, not financial gains
- Innovative technologies and products
- Community contributions and participations
- Operations with maximum transparency and accountability

Mozilla Manifesto

1. The Internet is an integral part of modern life.
2. The Internet is a global public resource that must remain open and accessible.
3. The Internet should enrich the lives of individual human beings.
4. Individuals' security on the Internet is fundamental and cannot be treated as optional.
5. Individuals must have the ability to shape their own experiences on the Internet.

Manifesto Continued

- *The effectiveness of the Internet as a public resource depends upon interoperability (protocols, data formats, content), innovation and decentralized participation worldwide.*
- *Free and open source software promotes the development of the Internet as a public resource.*
- *Transparent community-based processes promote participation, accountability, and trust.*
- Commercial involvement in the development of the Internet brings many benefits; a balance between commercial goals and public benefit is critical.
- Magnifying the public benefit aspects of the Internet is an important goal, worthy of time, attention and commitment.

Future of the Internet

- Open internet with accessibility, choice, and innovation (open standards, open source)
- “Browsers are too important to be left to companies to build.” (*Forbes*, page 60, 10/29/2007)

“Mozilla Is Cool” Video

Thank you very much!



I Support the Open Web