The next generation of Mozilla

Firefox 3.1, TraceMonkey, Mozilla Labs

a presentation for COSCUP 2008

on Mozilla

- Global community and public benefit (non-profit) organization dedicated to improving the Internet experience for people everywhere
 - 180,000,000 users worldwide
 - Free and open source software

on Mozilla

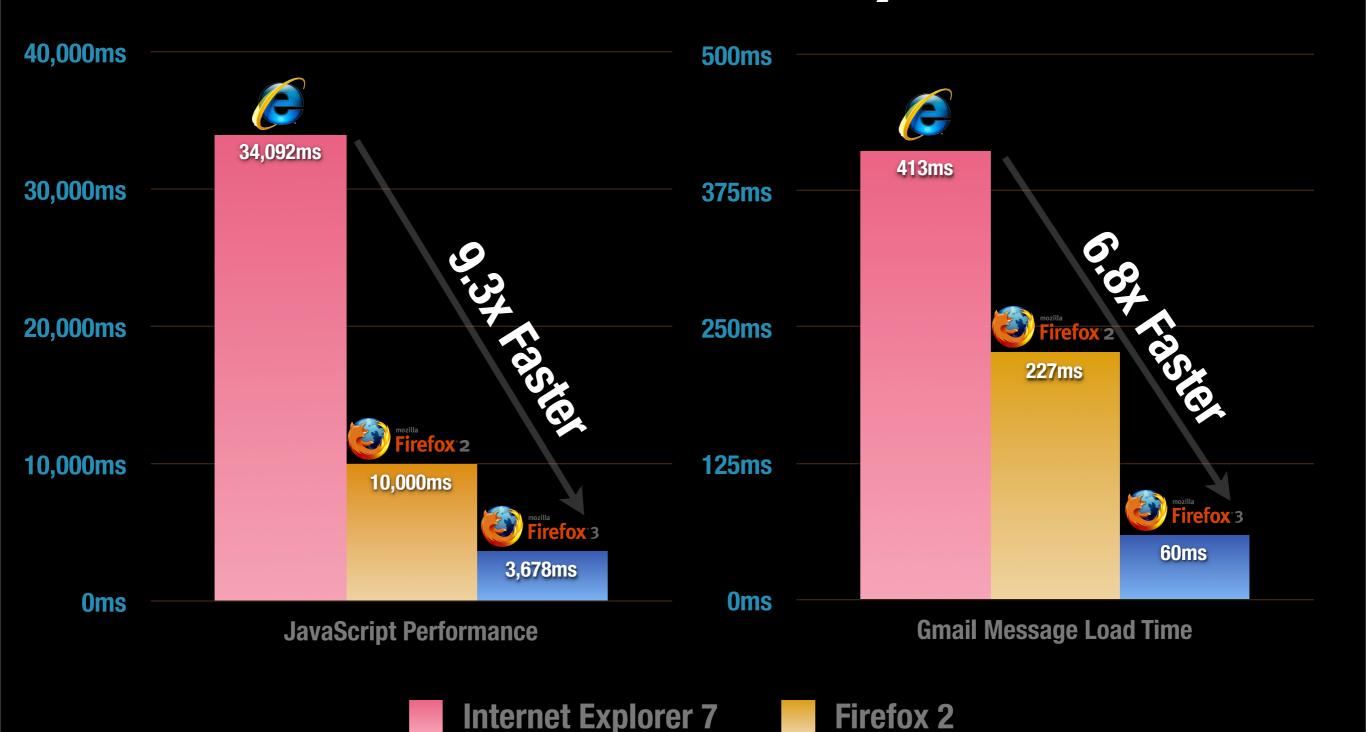
- Highly disciplined, transparent, and cooperative development process
 - 100's of active technical contributors
 - 10,000's of nightly testers
 - 100,000's of volunteer evangelists and marketers

on Firefox 3

- Firefox 3 shipped in 48+ languages simultaneously
- More than 500 million downloads
- Over 8,000,000 downloads in first 24 hours of Firefox 3

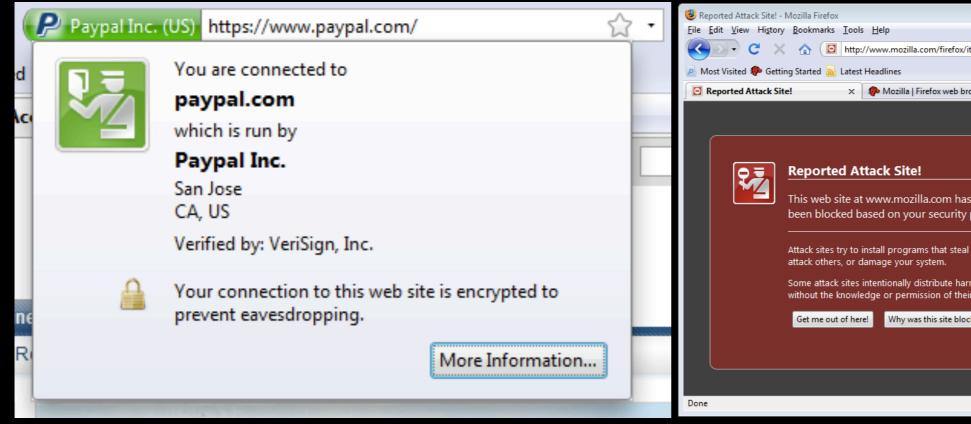
Fastest Firefox yet

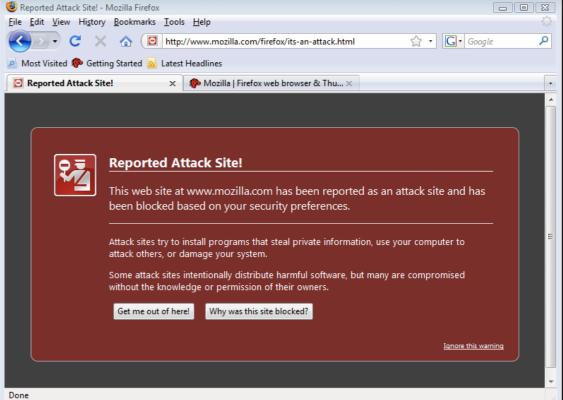
(time, lower is better)



Firefox 3

Safest Firefox yet





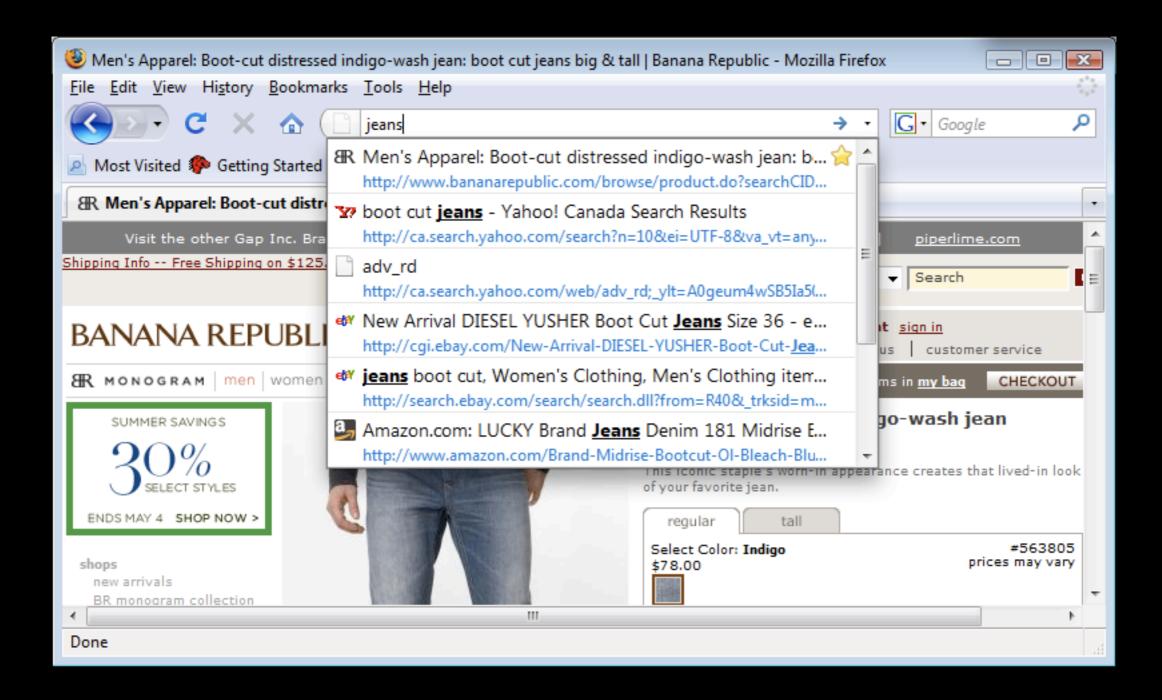
Instant Web Site ID

Malware protection

Lets you avoid Web forgeries and make sure a site is what it claims to be.

Protects consumers from 25,000 new phishing sites and 3,000 new malware sites per month

Search inside the browser



Firefox 3.1 "Shiretoko"



Firefox 3.1

- Codename: "Shiretoko"
- Improved HTML 5 support
- Significantly JavaScript support
- Improved CSS support
- Native <audio> and <video>
- Improved <canvas> support
- (list subject to change)

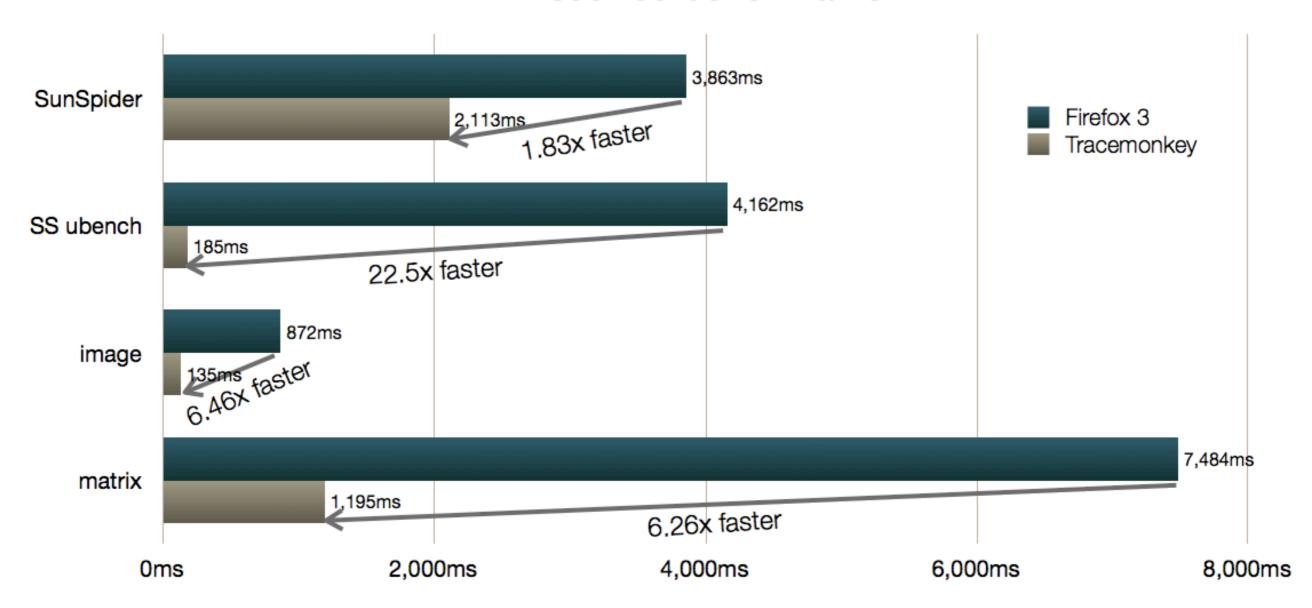
Firefox 3.1

- Gecko 1.9.1
- Downloadable fonts
- Support for cross-site XMLHttpRequests
- Improvements to the AwesomeBar
- Control-Tab new tab interface
- Much more...

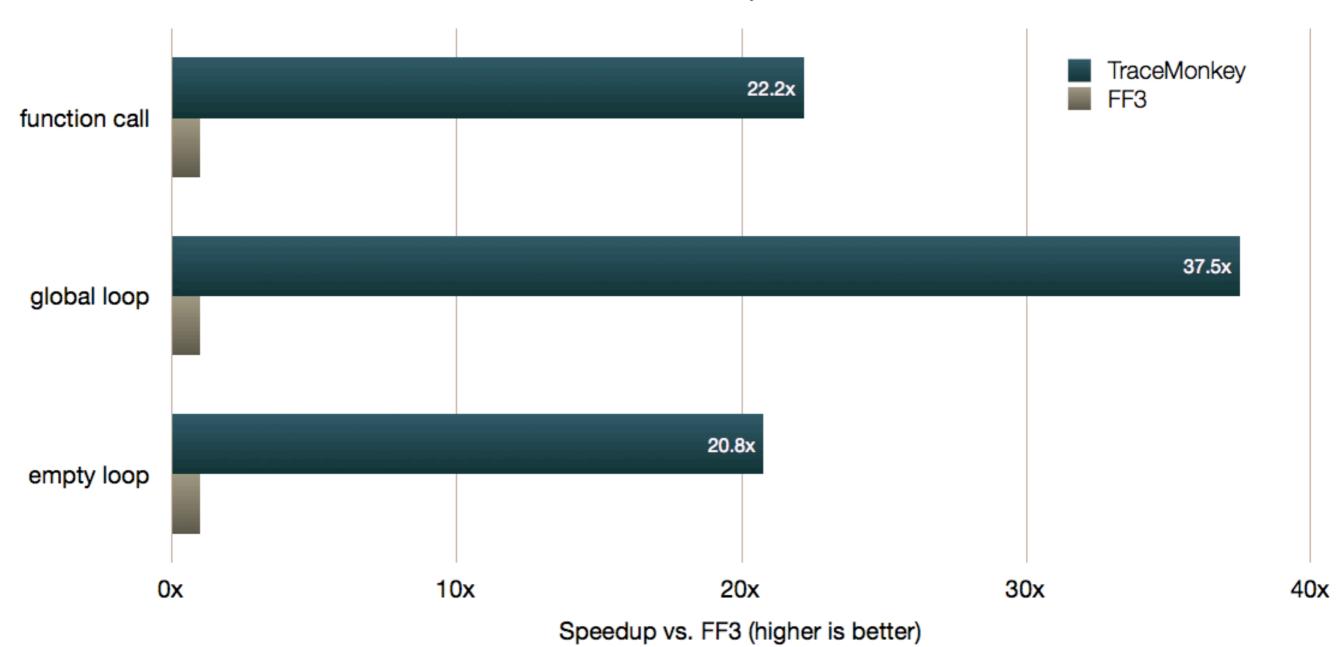
TraceMonkey

- NEW just-in-time JavaScript compiler
- SpiderMonkey + tracing = TraceMonkey
- Goal: make JS in Firefox as fast as native code
- On average IOX speed improvement
 - at times 20-40X speed improvements
- Many more improvements to come

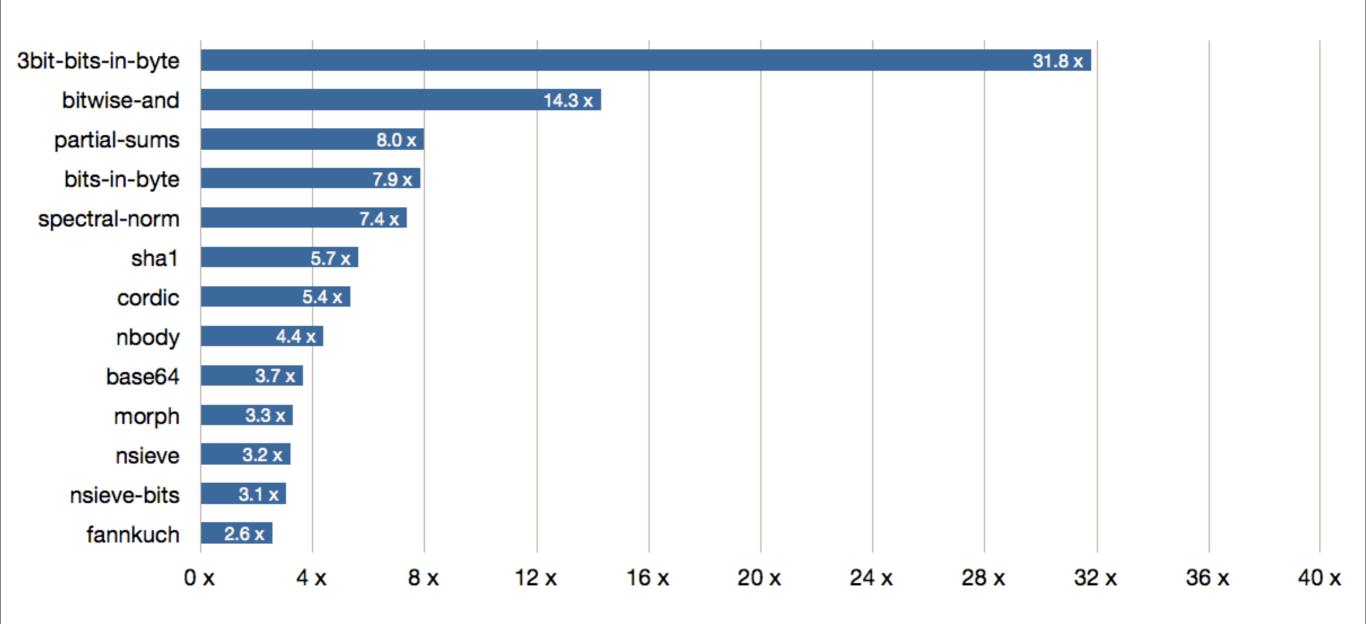
Assorted benchmarks



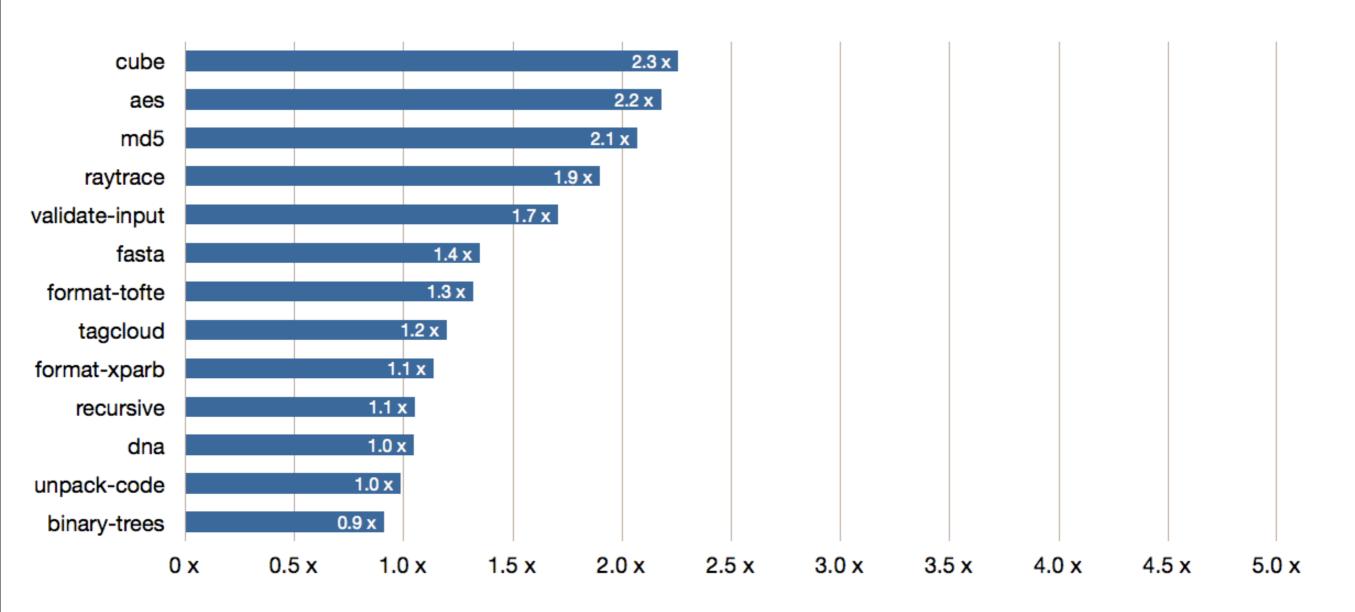
Core JavaScript Primitives



Firefox 3.1 with Tracing v.s. Firefox 3



Firefox 3.1 with Tracing v.s. Firefox 3



TraceMonkey

- Support: x86, x86-64, ARM (mobile)
- Will also benefit native video support, HTML5 Canvas, etc.
- Developed by Andreas Gal (UC Irvine)

TraceMonkey

• http://hg.mozilla.org/tracemonkey/

Mozilla Labs

- Is it possible to innovate in the open?
- Open source R&D
- Many new projects & open participation



- Optional Mozilla-hosted online services
- Full control and customization of data
- Respect privacy
 - full data encryption on client, transport, server
- Extensible architecture
- Standards-based services any user can run

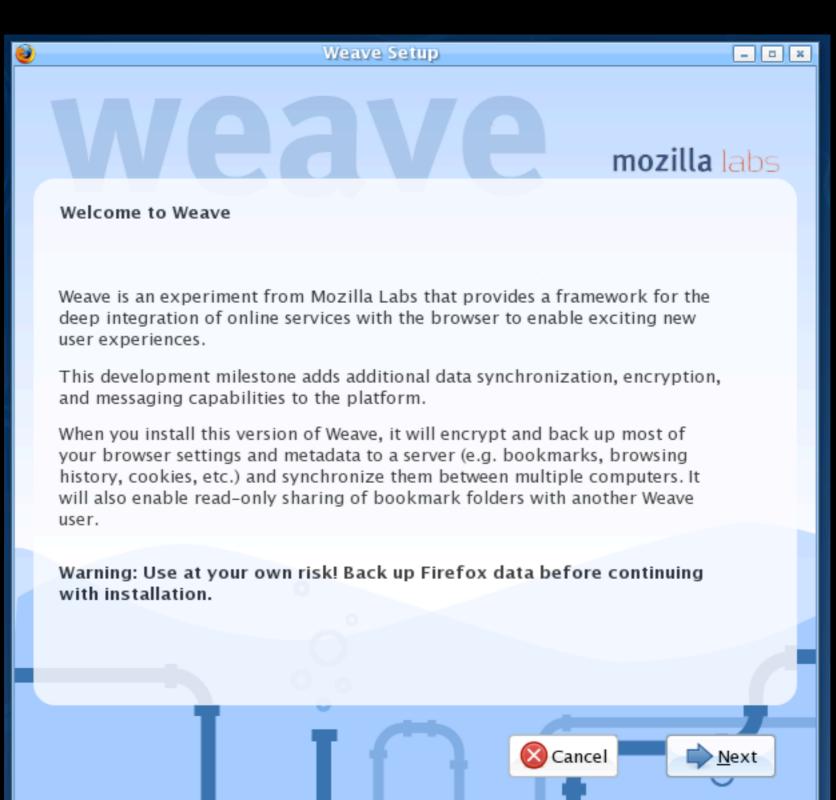


- Fully open source platform (unlike others)
 - Can run Weave on your own server
- Backup & sync:
 - Bookmarks
 - History
 - Cookies
 - Passwords
 - Tabs, form content, and more tbd

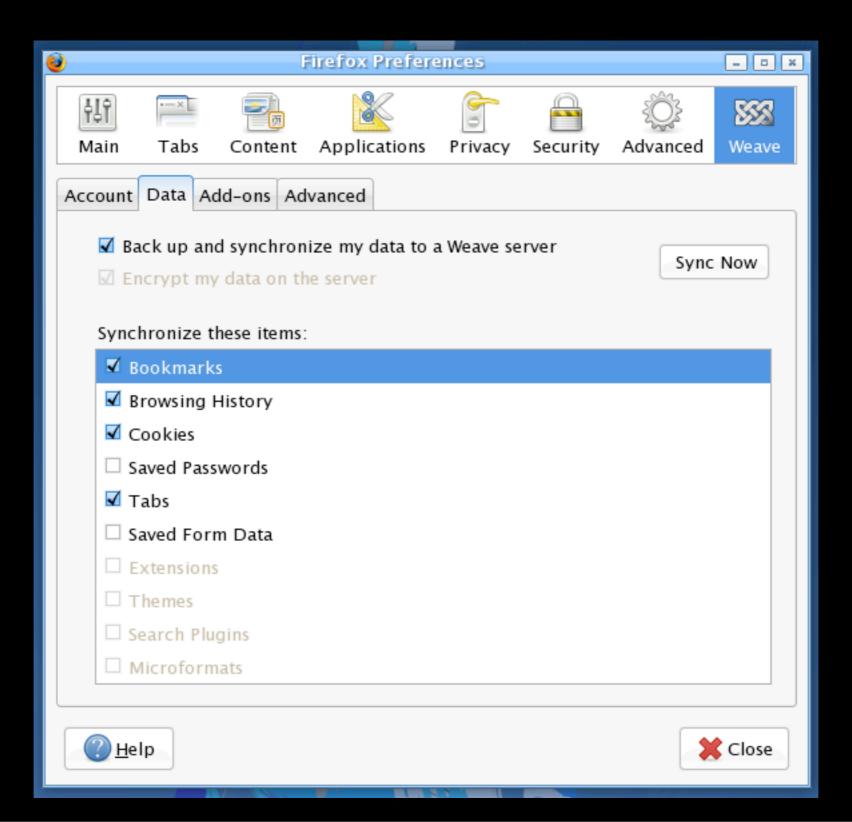


- Future functionality: backup/sync extensions, themes, search plugins
- Future: API for 3rd party extensions to use Weave data sync & storeage
- Key functionality for Mobile Firefox









- Mozilla Labs collaboration with Adaptive Path
- Vision of future web usage



AURORA

The spatial view contains every object on the Web that the user has ever interacted with. Older objects are farther away.

Objects are visual representations of resources on the web. They can be people (circles), places (rounded rectangles), or things (hexagons).

The history stack fills in from top to bottom with objects the user has recently put away.

The corners provide quick ways to filter the spatial view by people, places, and things, or to search for something specific.

The shelf is a collection of objects put there by the user, and serves as a longer-term mechanism for quick access to objects.

edges of the screen, but only when the user asks for it.

The frame runs along the

The user stack fills in from bottom to top with objects placed there by the user, and serves as a temporary storage area for objects the user may want to return to.

Clusters are usually created by the browser, which groups objects according to their semantic similarity or the user's patterns of use.



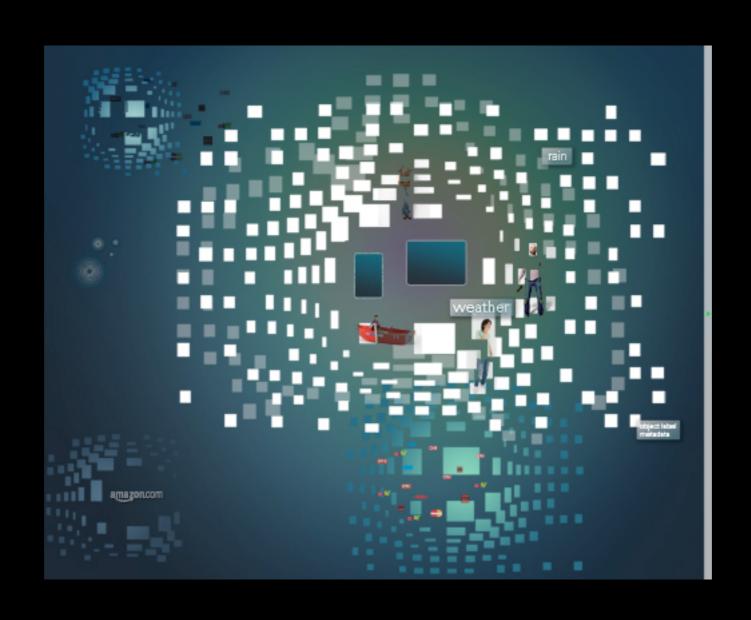
Everything in Aurora can be grabbed, manipulated, pushed, pulled, picked up, and put down.

The wheel curves away from the user along the bottom edge of the screen, and contains all the objects the user has active.









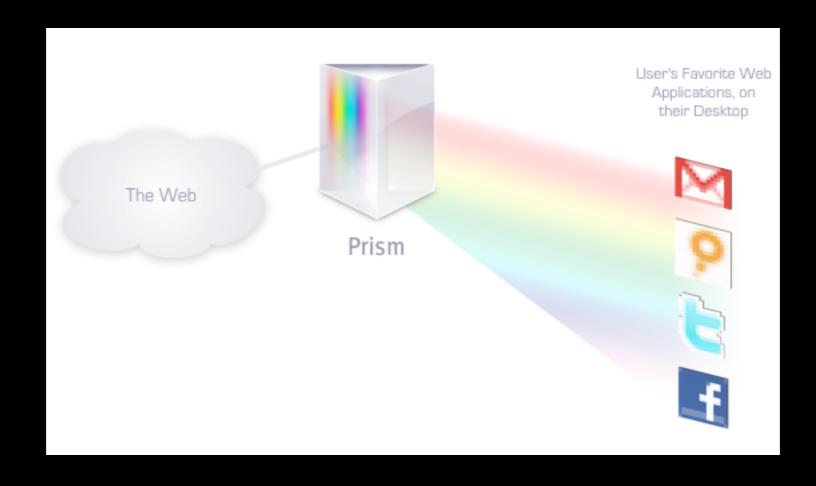
Labs: Prism



- Turn web applications into desktop apps
- Same Gecko 1.9 as Firefox 3
- Separate runtime
- Offline support
- Best for frequently used web apps





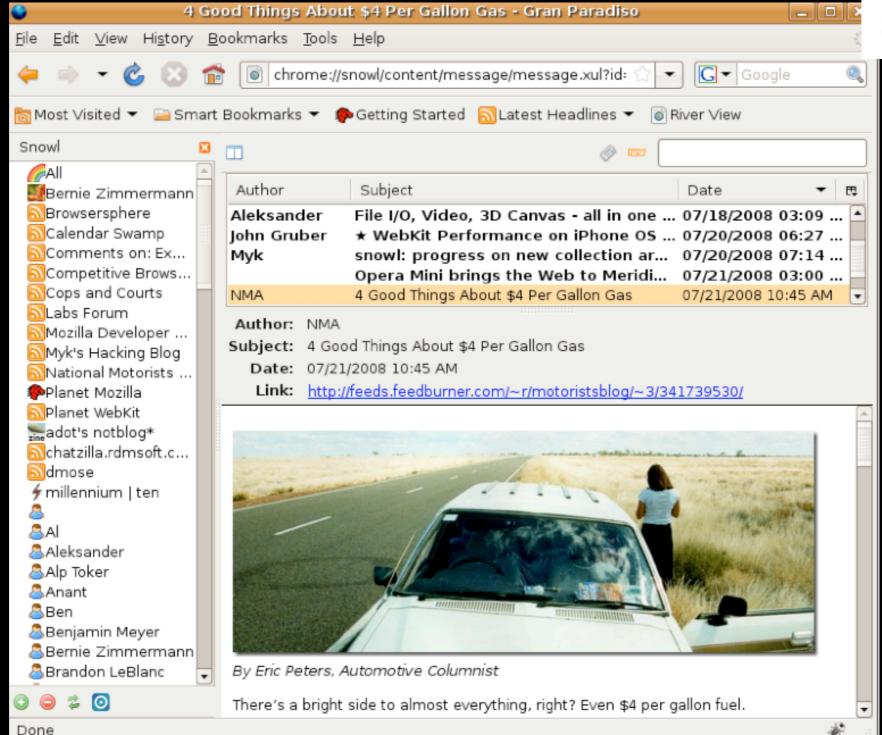


Labs: Snowl



- Support for messaging in the browser
- To "help you participate in online discussions"
- First prototype supports RSS/Atom & Twitter
- 3-pane view or "river of news"
- Support for searching of your messages

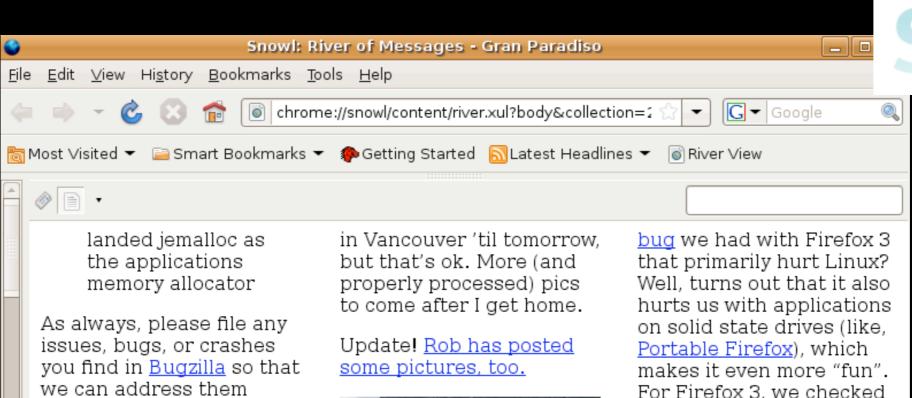
Labs: Snowl





Labs: Snowl





Deb Richardson: Escaping Whistler

dria - Fri 05:52 PM

before 0.7 final!

Posted some shots of our post-Summit fun-but-not-wholly-successful adventure over on Flickr: Escaping Whistler. We all had to move our flights. We all almost had to move our flights twice. I'm stuck



Shawn Wilsher: More on fsync

Shawn Wilsher - Fri 09:40 PM

You know that "fun" fsync

bug we had with Firefox 3 that primarily hurt Linux? Well, turns out that it also hurts us with applications on solid state drives (like, Portable Firefox), which makes it even more "fun". For Firefox 3, we checked in a patch that allows for people to change the default synchronous setting that SQLite uses when a database connection is opened. This was really just a stopgap measure. I've spent the last month coming up with real solutions to the problem, and I think I've finally got one that will greatly help the issue, and not regress our current

Labs: Ubiquity

- Combine power of command line with GUI
- Text-based commands to interact with web
- Completely customizable

Labs: Ubiquity



wikipedia babel fish

W wikipedia babel fish

Wikipedia articles found matching babel fish:

Babel fish

The Babel fish is a fictional species in The Hitchhiker's Guide to the Galaxy series by Douglas Adams.

Babel Fish (website)

Babel Fish is a web-based application on Yahoo! that machine translates text or web pages from one of several languages into another. Developed by AltaVista, the application is named after the fictional animal used for instantaneous language translation in Douglas Adams's series The Hitchhiker's Guide to the Galaxy. In turn the fish is a reference to the biblical account of the city of Babel and the various languages said to have arisen there.

Babel Fish (band)

Babel Fish are a Norwegian pop rock band from Oslo formed in the late 1980s. The band's members are Tarjei van Ravens (vocals, guitar), Halvor Holter (keyboards, vocals), Odd Jensen (drums), and Simon Malm (bass), the first three as co-founders.

Babel (disambiguation)

a new route peed to be about its the name used in the Hebrew Bible for the city of Babylon. The Babil Governorate in Iraq Wiktionary (named after Babylon) is sometimes transliterated as "Babel".

[wtk[ont] n...
a with based Open
Content dilleters.

Tower of Babel



The Tower of Babel (Hebrew: מגדל בבל Migdal Bavel Arabic: برع بابل Burj Babil) is a structure featured in chapter 11 of the Book of Genesis, an enormous tower intended as the crowning achievement of the city of Babilu, the Akkadian name for Babylon. According to the biblical account, Babel was a city that united humanity, all speaking a single language and migrating from the east; it was the home city of the great king Nimrod, and the first city to be built after the Great Flood. The people decided their city should have a tower so immense that it would have "its top in the heavens." (ווֹאשׁוֹ בּשְׁשִׁמִים). However, the Tower of Babel was not built for the

worship and praise of God, but was dedicated to the glory of man, with a motive of making a 'name' for the builders - Genesis 11:4. God seeing what the people were doing, confused their languages and scattered the people throughout the earth.

http://labs.mozilla.com/

Much more to come

- Use Mozilla; spread the word
- Participate locally (MozTW.org)
- Participate globally (Mozilla)
- Contribute, file bugs, test

Thank you very much!

gen@mozilla.com