Google 10 0



Google Chrome Developer Tools

Pavel Feldman, Anders Sandholm 5/19/2010

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- What is Chrome Developer Tools?
- Project history
- Developer Tools overview
- Story 1: Debugging JavaScript
- Story 2: Identifying performance issues
- Story 3: Understanding memory usage
- Developer Tools internal design
- Links & How to contribute
- Q&A



What is Chrome Developer Tools?

- It is to Chrome what Firebug is to Firefox
- It is not a Firebug port for Chrome though
- It is a part of standard Chrome distribution
- It is WebKit Web Inspector, working on top of V8 JavaScript engine in the Chrome multi-process architecture



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Project history

Chrome v1







Chrome v3

🔁 Elements

Resources

Console

Scripts

CPU Profiler

Chrome v4

Elements

Resources

Console

Scripts 3

CPU Profiler

Timeline

Heap Profiler

Storage

Chrome v5 (Beta)

🙀 Elements

Resources

Console

Scripts Scripts

CPU Profiler

Timeline

Heap Profiler

Storage

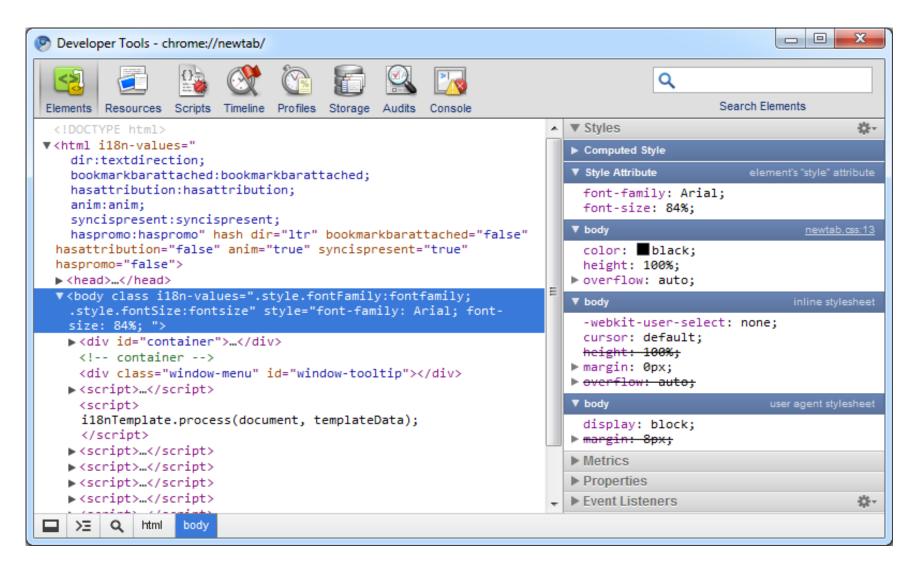
Audits



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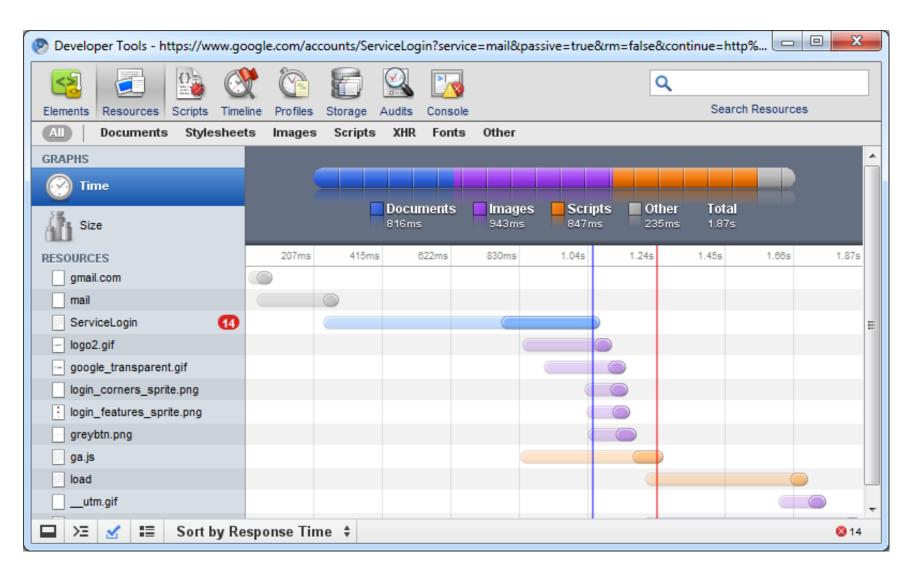


Developer Tools overview Elements Panel



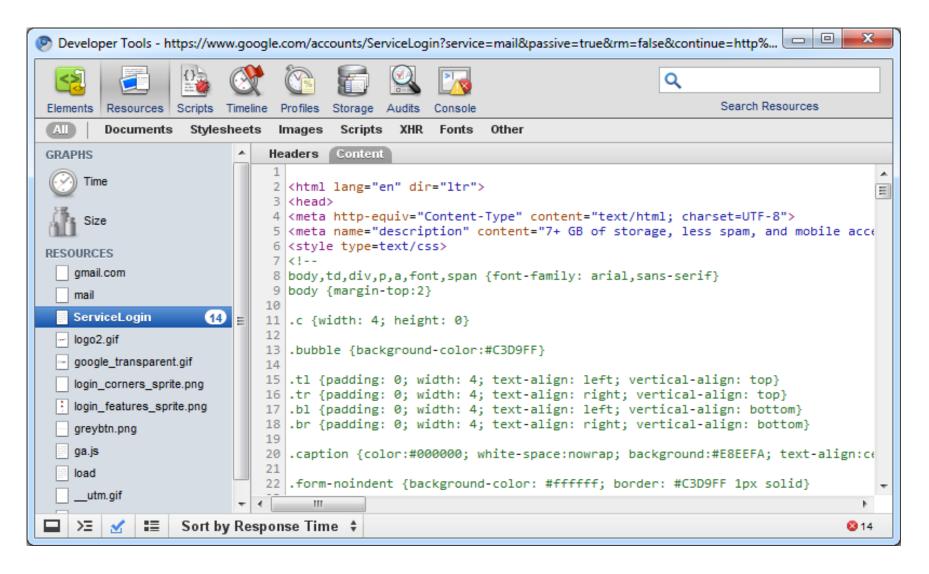


Developer Tools overview Resources Panel



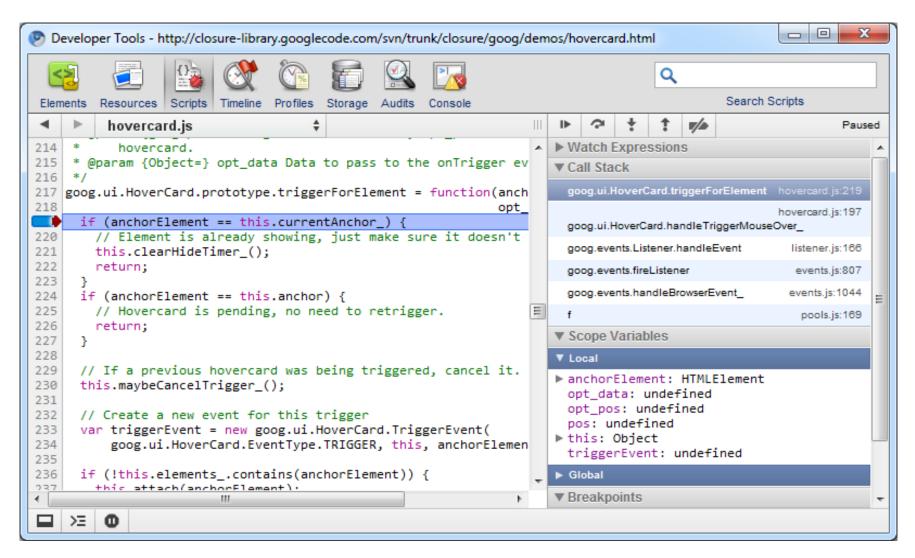


Developer Tools overview Resources Panel. Content



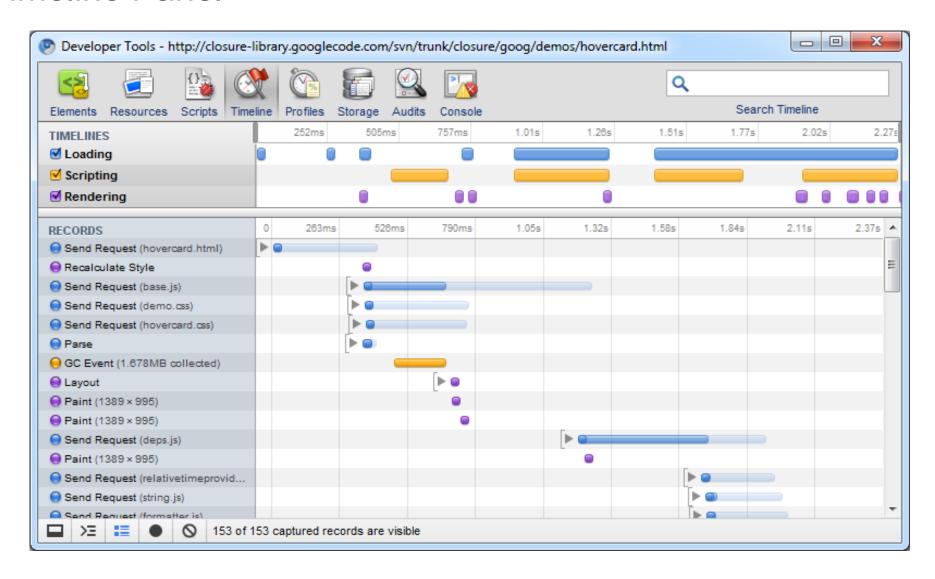


Developer Tools overview Scripts Panel



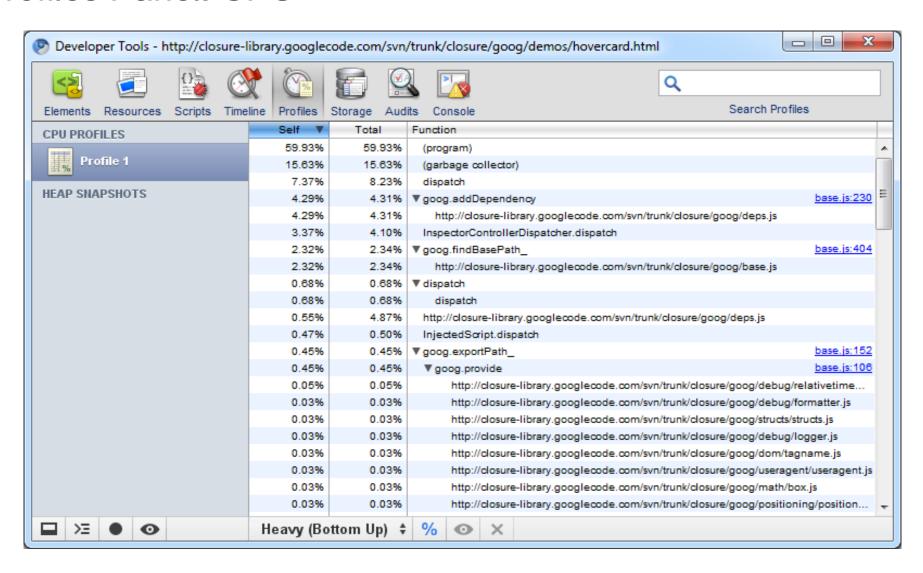


Developer Tools overview Timeline Panel



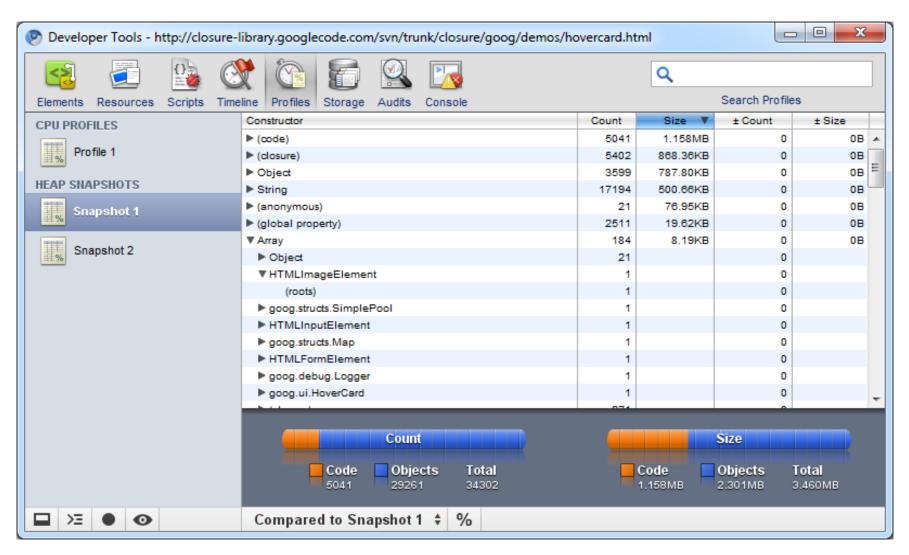


Developer Tools overview Profiles Panel. CPU



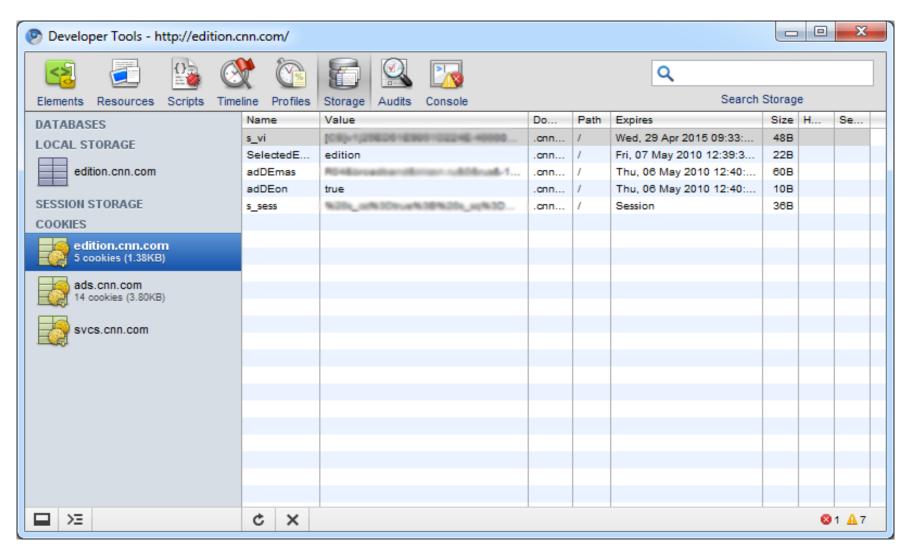


Developer Tools overview Profiles Panel. Heap



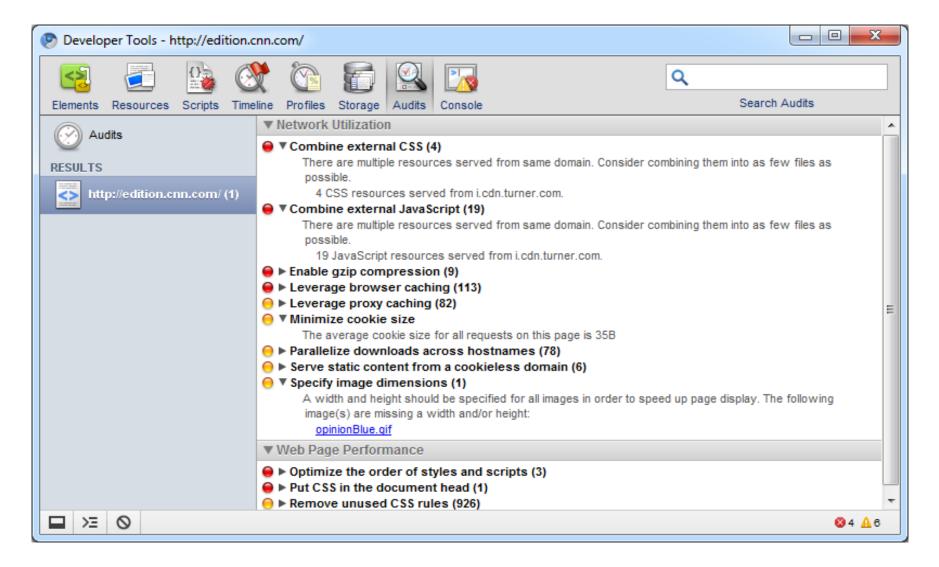


Developer Tools overview Storage Panel



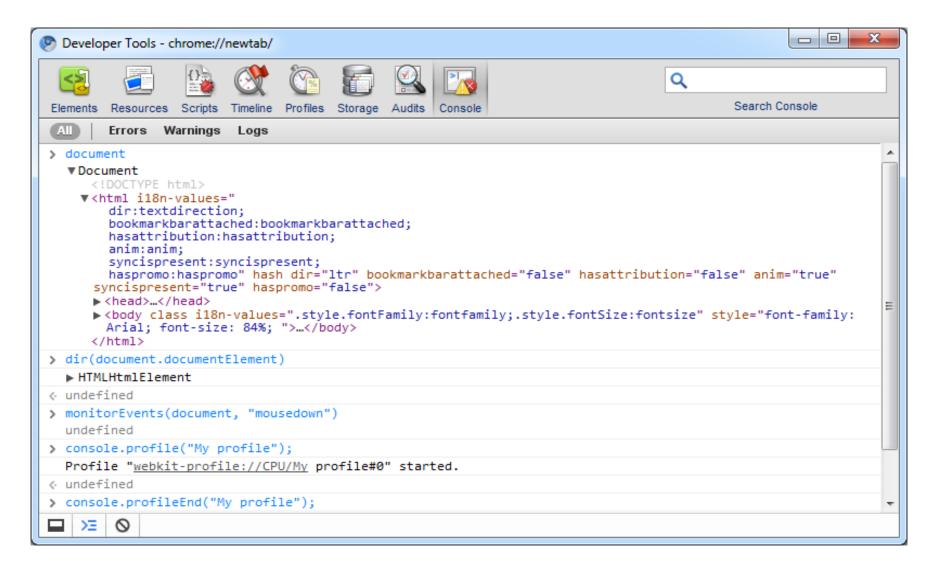


Developer Tools overview Audits Panel





Developer Tools overview Console Panel





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Story 1: Debugging JavaScript



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Story 2: Identifying performance issues



...going beyond JavaScript



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Story 3: Understanding memory usage



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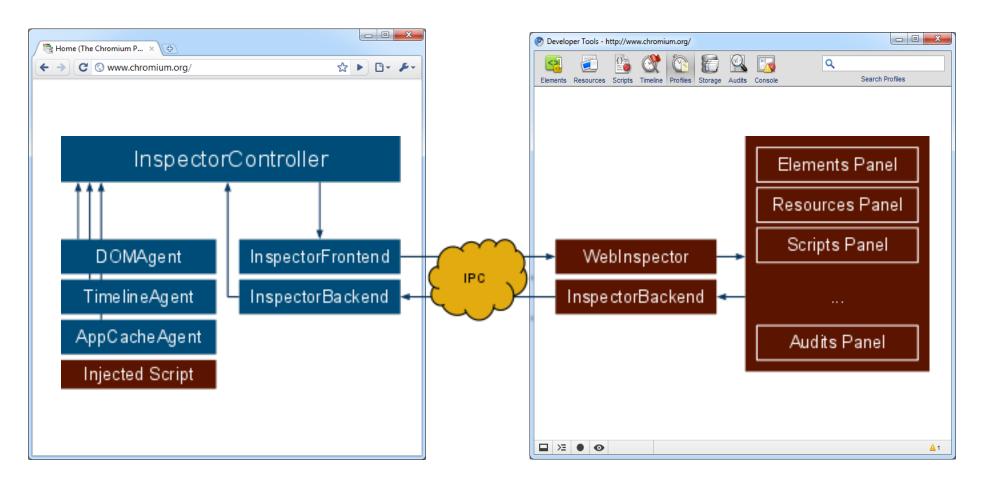


Developer Tools internal design

- Development process
 - Open Source
 - WebKit ("upstream")
 - o V8
 - Chromium ("downstream")
- Dependency updates
 - Daily WebKit updates
 - Regular V8 updates
- Early access & release channels
 - Stable, Beta, Dev



Developer Tools internal design



Inspected Page

Frontend Page



Links

- http://chromium.org/devtools
- http://chromium.org
- http://webkit.org

How to contribute

- http://crbug.com
- http://webkit.org/new-inspector-bug
- irc://irc.freenode.net/#webkit-inspector



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