



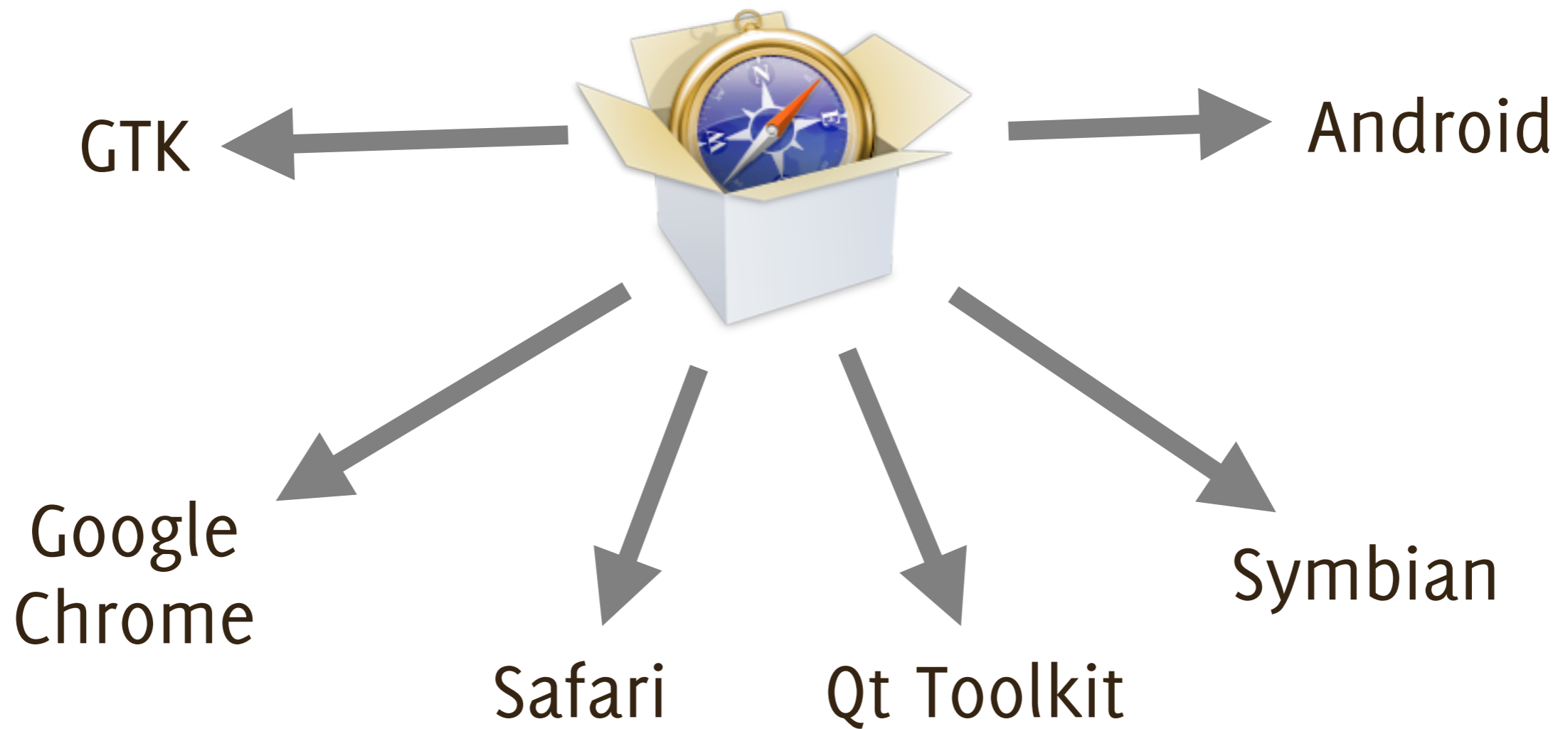
WebKit Bug #17229

Konstantin Käfer

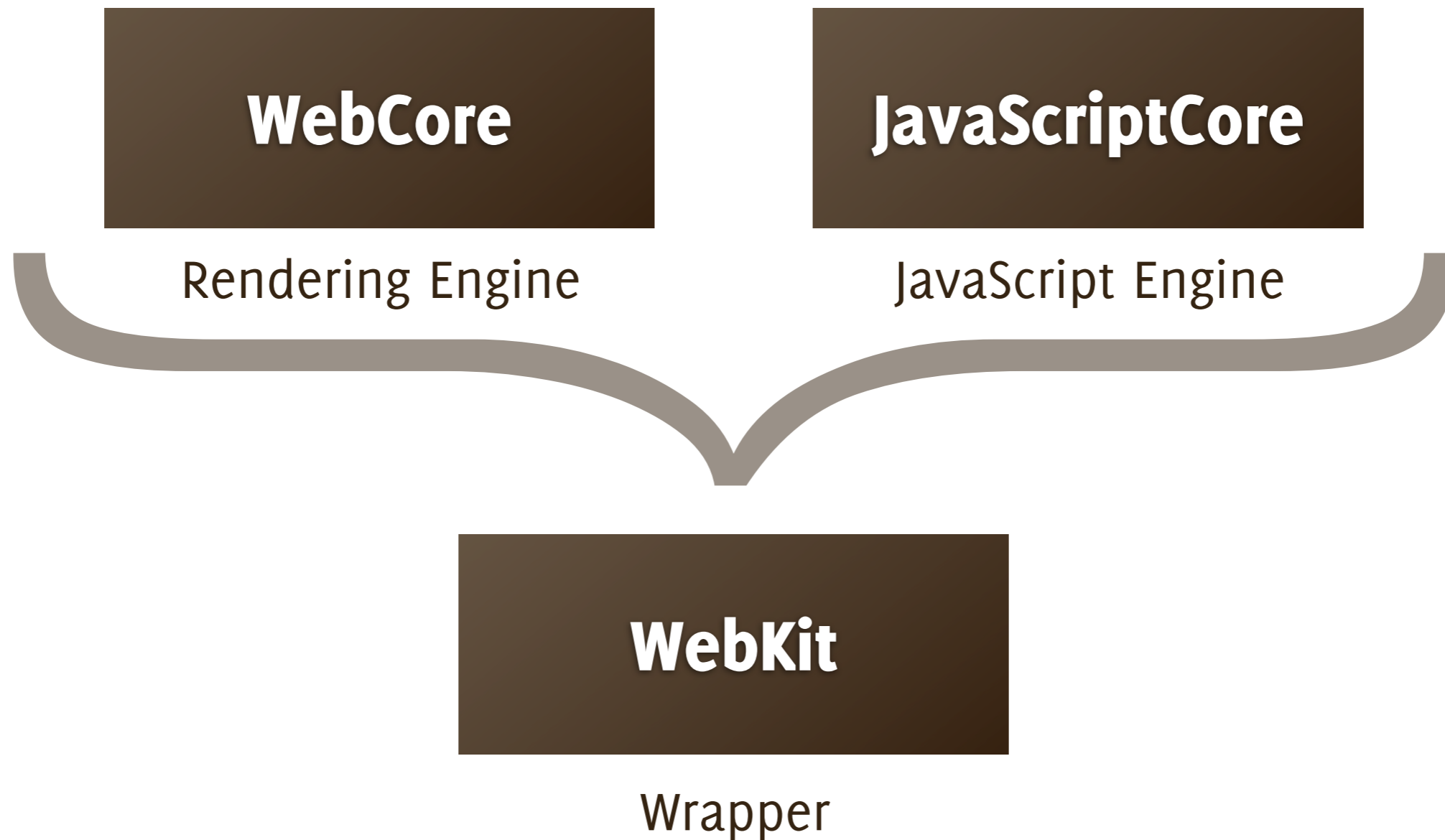
Outline

- ▶ Project Structure and Goals
- ▶ History
- ▶ Communication and Process
- ▶ People
- ▶ The Bug

WebKit



1. Project Structure and Goals



Goals

- ▶ **Web Content Engine:** mainly web, but also general-purpose display/interaction engine
- ▶ **Portability:** Make it usable on many platforms
- ▶ **Hackability:** Keep code easy and maintainable
- ▶ **Usability:** Use platform-native UI conventions

2. History



1999: Started as KHTML (KDE project)

2002: Apple forked quietly

2005: Apple opens up development process

Now: “Unforking”

Apple vs. KHTML

- ▶ Apple did only the minimum required by LGPL
- ▶ No access to internal **CVS**
- ▶ Changes are released as single large patches
- ▶ Lots of platform-specific code
- ▶ Only WebCore/JSCore, but not WebKit was released

3. Communication and Process

Mailing lists

Bug tracker

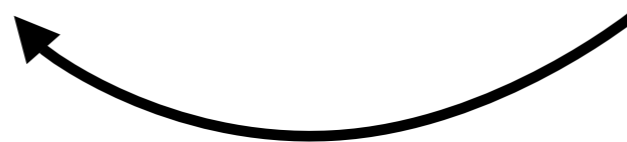
IRC

Ticket

Patch

Review

Commit



Mailing lists

- ▶ **webkit-dev**: General discussion
- ▶ **webkit-reviews**: Receives all review requests
- ▶ **webkit-changes**: Receives all commit messages
- ▶ **webkit-unassigned**: All unassigned tickets
- ▶ **webkitsdk-dev**: Development on Mac OS X

Bug tracker

► Bugzilla

WebKit Bugzilla

Bug 17229: Inspector should show properties of all JS objects in Console Modified: 2009-01-01 17:08:35 PDT

Bug List: (This bug is not in your last search results) [Show last search results](#) [Search page](#) [Report new bug](#)

Bug#: 17229 alias:

Product: WebKit

Component: Web Inspector

Status: RESOLVED

Resolution: FIXED

Assigned To: Nobody <webkit-unassigned@lists.webkit.org>

URL:

Summary: Inspector should show properties of all JS objects in Console

Keywords: InRadar

Hardware: All

OS: All

Version: 528+ (Nightly build)

Priority: P2

Severity: Enhancement

Reporter: [Adam Roben \(aroben\)](#) <aroben@apple.com>

Add CC:

CC: kkaefer@gmail.com
oliver@apple.com
timothy@hatcher.name

Remove selected CCs

Attachment	Type	Created	Size	Flags	Actions
allows inspection of objects by just printing them to	patch	2008-12-29	5.0K	none	Review Patch Edit Formatted

IRC

- ▶ **#webkit** on irc.freenode.net
- ▶ Lots of core developers
- ▶ Helpful people

Other tools

- ▶ **Subversion**
- ▶ **Trac**: Browse code, wiki and change history
- ▶ **CIA.vc**: Statistics
- ▶ **Build bots**: Automated testing

		<u>WebKit</u> last build										
		failed 2 test cases (<1%) had incorrect layout 205 test cases (2%) timed out	failed 35 test cases (<1%) had incorrect layout	failed failed slave lost	build successful	failed 1 test case (<1%) had incorrect layout	failed jscore-test 1 regression found. 44 test cases (<1%) had incorrect layout 20 test cases (<1%) timed out 1 test case (<1%) crashed	build successful	failed compile- release	failed compile- release_2	failed jscore-test 1077 regressions found. layout-test	failed jscore-test 1077 regressions found. layout-test
current activity		building 5 pending	offline 138 pending	offline 138 pending	idle	building 1 pending	building	building	idle	building 1 pending	idle	idle
time (NZDT)	<u>changes</u>	<u>trunk-mac- ppc-release</u>	<u>trunk- mac- intel- release</u>	<u>trunk- mac- intel- debug</u>	<u>trunk-mac- intel-pixel</u>	<u>trunk-mac- ppc-pixel</u>	<u>trunk-win- debug</u>	<u>trunk-qt- linux-release</u>	<u>trunk-gtk- linux-release</u>	<u>trunk-wx- mac-debug</u>	<u>trunk- chromium- win-release</u>	<u>trunk- chromium- mac-release</u>
		compiling release <u>stdio</u>				pixel-layout- tests running <u>stdio</u>	updating r39682 <u>stdio</u>	compiling release <u>stdio</u>		compiling release <u>stdio</u>		
05:09:34							Build 2424					
05:08:49							upload- results <u>stdio</u>					
05:06:16					upload- results <u>stdio</u>		44 test cases (<1%) had incorrect layout 20 test cases (<1%) timed out 1 test case (<1%) crashed <u>stdio</u>					
					pixel-layout- test <u>stdio</u>			compiled release warnings <u>stdio</u> warnings				
								set configuration release <u>stdio</u>				
05:05:23								update r39682 <u>stdio</u>				
05:05:22								Build 12919				
05:04:43								upload- results <u>stdio</u>				
05:03:21								jscore-test <u>stdio</u> results				
13 01						compiled release		compiled release warnings				

Website

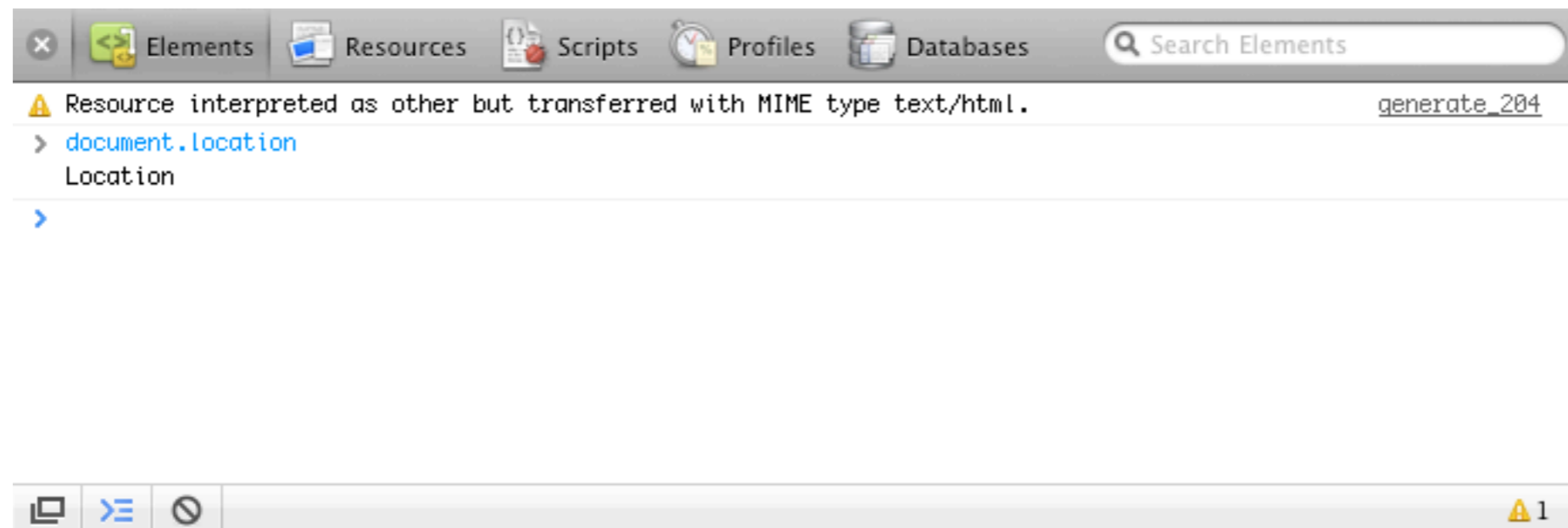
- ▶ Explicit commit policy
- ▶ Bug prioritisation
- ▶ Reporting guidelines
- ▶ Contribution help

4. People

- ▶ Just some I noticed, by no means complete!
- ▶ David Hyatt (hyatt)
- ▶ Maciej Stachowiak (othermaciej)
- ▶ Mark Rowe (bdash)
- ▶ Oliver Hunt (olliej)
- ▶ Timothy Hatcher (xenon)
- ▶ Adam Roben (aroben)

5. The Bug

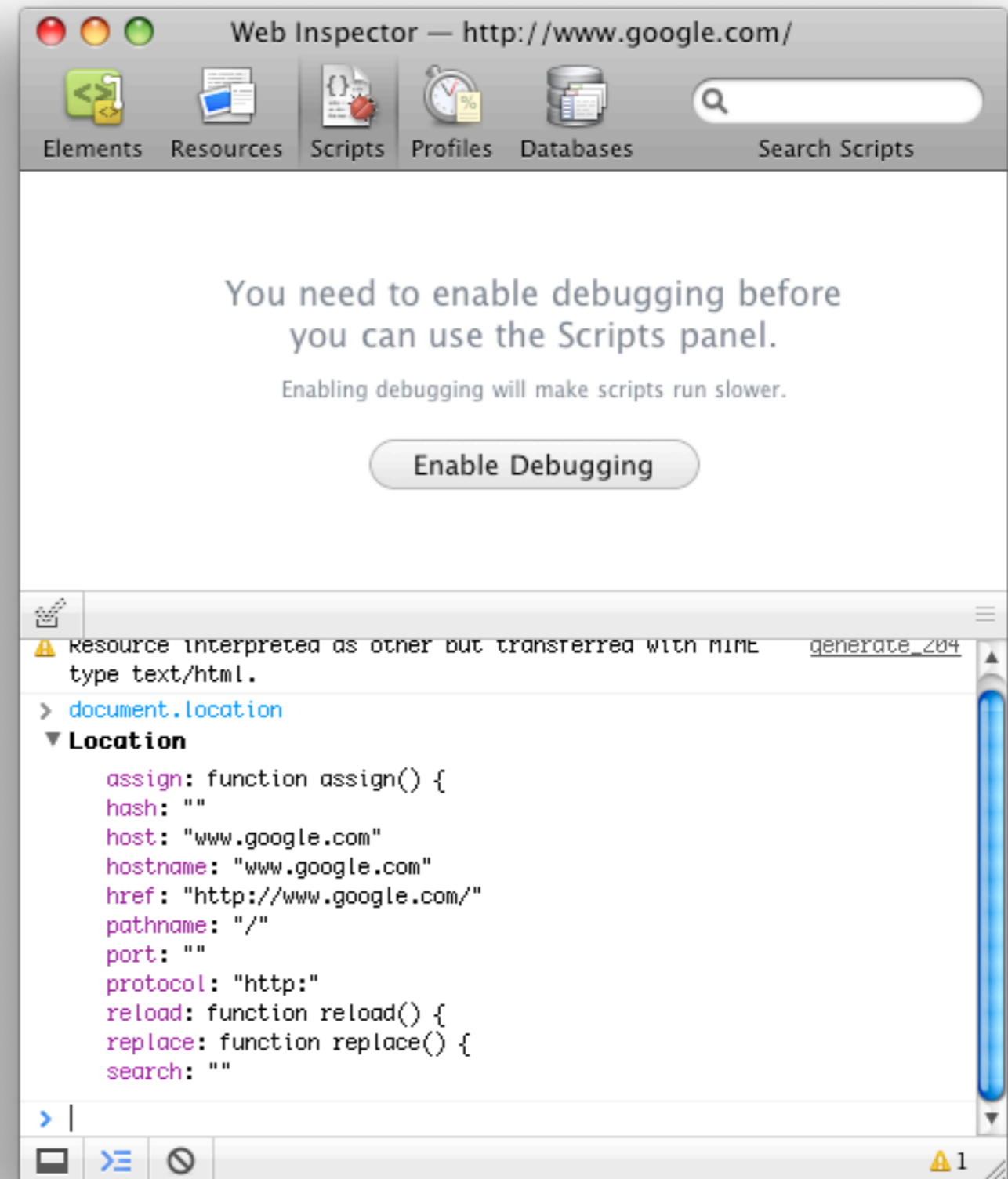
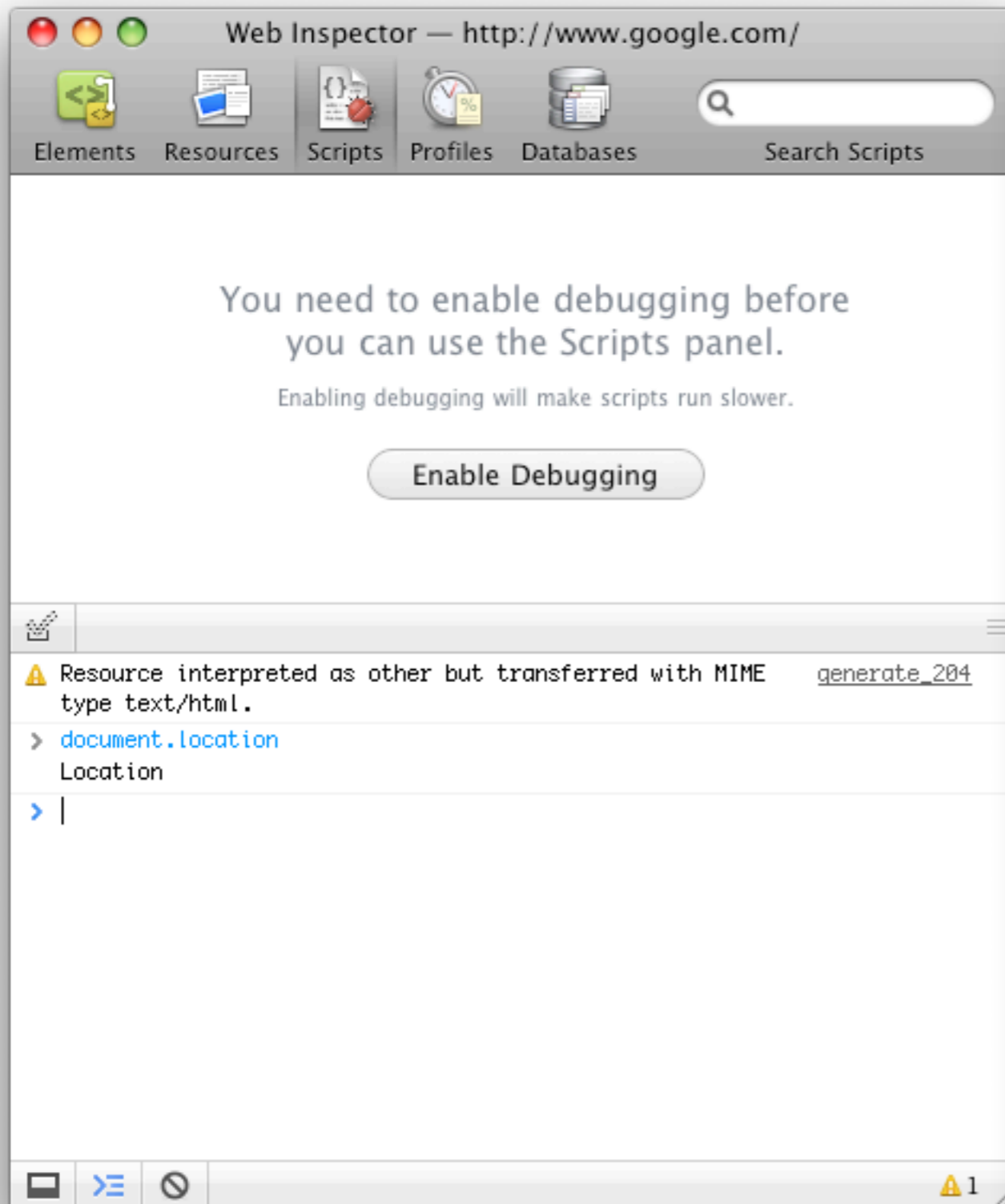
- ▶ **Bug #17229:** “Inspector should show properties of all JS objects in Console”
- ▶ **Web Inspector**



Web Inspector

- ▶ Similar to Firebug
- ▶ Allows developers to inspect the web page
- ▶ Includes JavaScript console
- ▶ Completely written in HTML/CSS/**JavaScript**
- ▶ Inspector can inspect other Inspector
- ▶ Very clean code

The Problem



Demo

Questions?