

Open Source

Enthusiastic Hobist

Life of a Chromium Developer

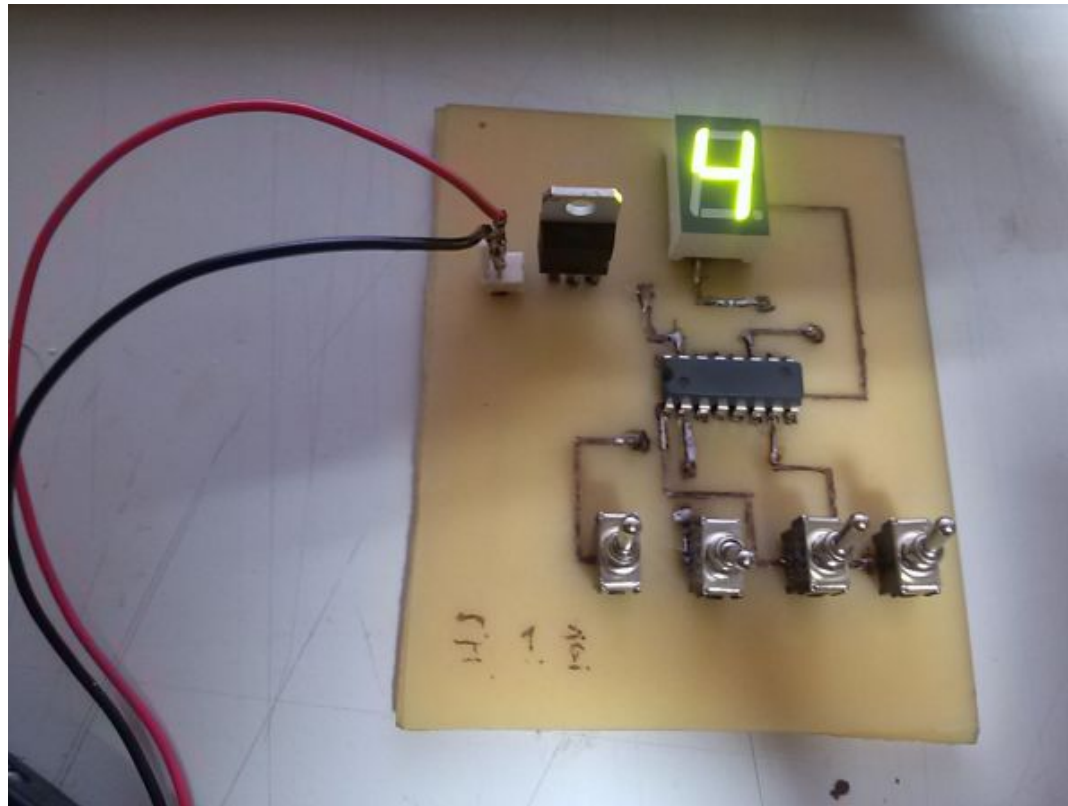
chromium.org originally shared this doc.
modified by limasdf@gmail.com

What's your hobby?

Getting bored with gaming



Hardware hacking is expensive



Get involved in open source! join in the fun

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🌐 <http://www.limsungguk.com/>

🕒 Joined on Apr 28, 2011

29

Followers

89

Starred

21

Following

dart-lang zations



Id	Subject	Owner	Reviewers
15384833002	tabs.onUpdate is not be called when using history API	me	
1511103003	Use rvalue reference instead of ExtensionBuilder::pass()	me	danakj (behind on reviews), Antony Sargent
1526233002	Do not install kiosk_only app from non chromeos	me	
1522373002	Remove ScopedVector from /extensions part#3 (Closed)	me	Devlin
1522853003	Remove ScopedVector from networking_private api (Closed)	me	stevengb
1503223004	Remove ScopedVector from /extensions part#2 (Closed)	me	Devlin
1510233005	extensions::ListBuilder move constructor doesn't transfer to a raw pointer. (Closed)	me	danakj (behind on reviews), Antony Sargent
1497753002	Use rvalue reference instead of extensions::ListBuilder::Pass() (Closed)	me	danakj (behind on reviews), Nico (office move Wed Thu Fri), Antony Sargent
1510913003	WIP	me	
1494833002	Cleanup/ linked_ptr -> scoped_ptr from c/b/ui/webui (Closed)	me	Bernhard Bauer
1486333002	Kill ScopedPtrMap and friends (Closed)	me	danakj (behind on reviews), Ken Rockot, Nico (office move Wed Thu Fri), Reilly Grant (OOO until 2016), Matt Giuca (OOO until Jan 4)
1475403003	Cleanup/ Remove unused code from download_manager_impl.cc (Closed)	me	Pawel Hajdan Jr.
1477393002	ScopedPtrMap -> std::map from /component/content_settings/gcm_driver (Closed)	me	Nicolas Zee, raymes (OOO until Jan 4)
1459773002	ScopedPtrMap -> std::map from /sync (Closed)	me	Nicolas Zee
1482013002	Improve chrome.tabs.onUpdated for anchor navigate	me	
1469853002	Remove ScopedPtrMap from components/password_manager_and_friend (Closed)	me	vabr (Chromium)
1471773002	Remove ScopedPtrMap from /component/mus (Closed)	me	Ben Goodger (Google)
1454773002	Play better with C++11 library features from /chromeos (Closed)	me	hashimoto, oshima, cschuet
1462763002	Remove ScopedPtrMap from /cc (Closed)	me	enne, vmpstr, Matt Giuca (OOO til Jan 4)
1468013002	ScopedPtrMap -> std::map from /component (Closed)	me	raymes (OOO until Jan 4), sdfresne
1403373020	Kill NOTIFICATION_EXTENSION_WILL_BE_INSTALLED_DEPRECATED (Closed)	me	Ken Rockot
1457963002	Use scoped_ptr instead of linked_ptr from /content/renderer (Closed)	me	Avi
1458553006	ScopedPtrMap -> std::map from apps, ash, media, ui (Closed)	me	oshima, Avi, benwells, xhwang
1452793002	Play better with C++11 from extension_pref_value_map.h (Closed)	me	Ken Rockot
1456703004	ScopedPtrMap -> std::map from /ui/gfx/image (Closed)	me	danakj (behind on reviews)
1453643003	ScopedPtrMap -> std::map from /chrome (Closed)	me	Nico (office move Wed Thu Fri)
1455453002	linked_ptr: Add deprecation notice. (Closed)	me	danakj (behind on reviews)
1431593008	Remove deprecated extension notification from device_local_account_browser_test.cc (Closed)	me	cschuet
1448263002	ScopedPtrMap -> std::map from /contents (Closed)	me	Avi
1445543002	Remove ScopedVector from /extensions part#1 (Closed)	me	Devlin
1436753002	Remove ScopedPtrMap from extensions code (Closed)	me	Devlin, Nico (office move Wed Thu Fri)
1423843008	Receive RGB style color from extension	me	
1413123007	Remove deprecated extension notification from extension_disabled_ui.h/cc (Closed)	me	Ken Rockot
1429173004	Remove deprecated extension notification from extension_service_test_with_install.h (Closed)	me	Marc Treib, Ken Rockot
1427743007	Fix ExtensionWindowCreateTest.AcceptState flakiness on Mac (Closed)	me	benwells
1430643004	chrome.windows.update: fullscreen with toolbar become without toolbar	me	Devlin, spqchan
1434503002	WIP	me	
1407913008	Resubmit/ Remove deprecated extension notification from app_browser_test.cc (Closed)	me	Marc Treib, benwells
1401023002	cleanup/ Remove deprecated extension notification from app_browser_test.cc (Closed)	me	benwells
1409353009	WIP	me	
1426013002	cleanup/ Remove deprecated notification from enterprise_platform_keys_apitest_nss.cc (Closed)	me	benwells
1412823004	chrome.browserAction.setBadgeBackgroundColor accepts hsl CSS color strings (Closed)	me	Devlin
1414033008	Remove extension_notification_observer.h/cc (Closed)	me	Lei Zhano, Ken Rockot

Overview

How does one get involved in Chromium development?
Usually, you do some variant on the following work flow:

1. Get a machine that can build Chromium
2. Get the code
3. Modify and build the code
4. Upload and review code
5. Commit patch and waiting game

1. Development Machine

Development Machine

Chromium is a large project!

- ~20000 build objects
- ~100 library objects
- 1 massive linked executable (~1.5GB on Linux Debug)

Even if you're building a 32-bit executable, you need a 64-bit machine since linking requires >4GB virtual memory.

Development Machine

General requirements:

- Lots of cores
- Lots of RAM
- Second hard drive for source code and building
- SSD(recommended)

Windows:

- Windows 7
- Visual Studio 2013 release 4 (무료다운로드가능!)
- [Follow Windows instructions](http://dev.chromium.org/developers/how-tos/build-instructions-windows) : <http://dev.chromium.org/developers/how-tos/build-instructions-windows>

Development Machine

Windows 버전

Windows 7 Professional K

Copyright © 2009 Microsoft Corporation. All rights reserved.

Service Pack 1

[새로운 Windows 7 버전의 추가 기능 가져오기](#)



시스템

등급:

5.9 Windows 체험 지수

프로세서:

Intel(R) Core(TM) i7-4770 CPU @ 3.40GHz 3.40 GHz

설치된 메모리(RAM):

16.0GB

시스템 종류:

64비트 운영 체제

펜 및 터치:

이 디스플레이에 사용할 수 있는 펜 및 터치식 입력이 없습니다.

Development Machine

Mac OS X*:

- Mac{Book Pro, Pro}
- A Mac running 10.9+.
- Xcode 5 or newer
- The OSX 10.10 SDK*
- [Follow Mac OS X instructions](https://chromium.googlesource.com/chromium/src/+/master/docs/mac_build_instructions.md)

https://chromium.googlesource.com/chromium/src/+/master/docs/mac_build_instructions.md

Linux*:

- 64-bit Ubuntu Precise or newer
- [Follow Linux instructions](https://code.google.com/p/chromium/wiki/LinuxBuildInstructions)

<https://code.google.com/p/chromium/wiki/LinuxBuildInstructions>

Development Machine

결론:

컴퓨터를 업그레이드하고

Chromium은 Windows, Mac, Linux, Android, ios를 지원함

처음 하시는분은 Linux나 Mac 을 추천 (개발 환경셋팅이 쉬움)

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2. Getting the Code

It takes long time to get the whole
code!

The Source Tree

A Chromium checkout is actually a forest of source trees over multiple version control systems.

So, we're using 'depot tools'.

Getting the code - Basic steps

There are 2 steps:

1. Install Depot Tools
2. Run `fetch chromium` to get all the code and generate the build files

Detailed instructions can be found at:

<http://dev.chromium.org/developers/how-tos/get-the-code>

And you're ready to build!

1. Install Depot Tools (프로젝트관리를 위한 유틸리티모임)

```
git clone https://chromium.googlesource.com/chromium/tools/depot_tools.git
export PATH=`pwd`/depot_tools:"$PATH"    ( 윈도우 사용시 Path설정)
```

2. Download the code

```
fetch chromium
```

```
# openlab0 ~/program_store/trash
> fetch chromium
Running: gclient root
Running: gclient config --spec 'solutions = [
  {
    "managed": False,
    "name": "src",
    "url": "https://chromium.googlesource.com/chromium/src.git",
    "custom_deps": {},
    "deps_file": ".DEPS.git",
    "safesync_url": "",
  },
]
Running: gclient sync
```

And you're ready to build!

```
# openlab0 ~/chromium/src (master)
> ls
android_webview  codereview.settings  jingle              remoting
apps             components           LICENSE             rlz
ash             content              LICENSE.chromium_os sandbox
AUTHORS         courgette            mandoline           sdch
base            crypto               mash                skia
blimp           dbus                 media               sql
blink           DEPS                 mojo                storage
breakpad        device               native_client       styleguide
build           docs                 native_client_sdk  sync
BUILD.gn        extensions          net                 testing
build_overrides gin                  out                 third_party
buildtools      google_apis         OWNERS              tools
cc              google_update       pdf                 ui
chrome          gpu                  ppapi               url
chromecast      headless             PRESUBMIT.py        v8
chrome_elf      infra                PRESUBMIT_test_mock.py WATCHLISTS
chromeos        ios                  PRESUBMIT_test.py   win8
cloud_print     ipc                  printing
# openlab0 ~/chromium/src (master)
> █
```

3. Modifying and Building

Development Environment (IDE, etc.)

There is no single supported platform or IDE. Use what you're comfortable with!

Common Setups:

- Linux: vim*/emacs
- Mac: ?
- Windows: ?

For code completion: [Chromium Code Search](#) :)

Building Code: ninja

This should work on any OS (Linux, Mac, Windows)

In the **src/** directory:

```
$ ninja -C out/Debug chrome
```

Builds to **src/out/** directory, e.g. **src/out/Debug/chrome**

```
# openlab0 ~/chromium/src (master)
> ninja -C out/Debug chrome
ninja: Entering directory `out/Debug'
[5931/5931] LINK chrome
# openlab0 ~/chromium/src (master)
> ls -al out/Debug/chrome
-rwxrwxr-x 1 sungguklim sungguklim 1697862048 Dec 20 20:31 out/Debug/chrome
```

빌드에러?

크로미움 코드가 잘못됐을 확률 < 1%

1. 환경

Window: Visual Studio, Microsoft SDK

MAC: OSX SDK 10.10

Linux: Run [build/install-build-deps.sh](#) ?

2. 검색.. 하드디스크 용량 확인 ..

- <http://dev.chromium.org/developers/how-tos/build-instructions-windows>
- https://chromium.googlesource.com/chromium/src/+master/docs/mac_build_instructions.md
- <https://code.google.com/p/chromium/wiki/LinuxBuildInstructions>

Common Build Problems

Random C++ errors from a fresh copy of source

[Check waterfall](#) to see if the tree is red. If so, try updating the code when the tree is green and build again.

Confusing link errors on a checkout that used to work

Try deleting your output directory to force a clean build. If using Visual Studio, make sure you quit before syncing.

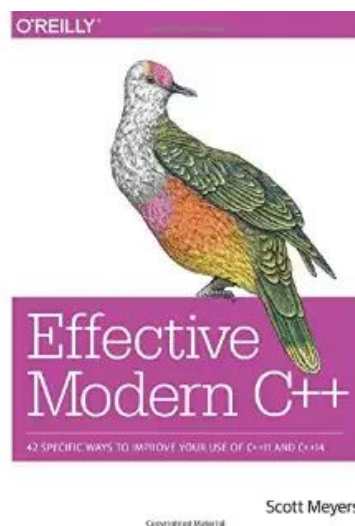
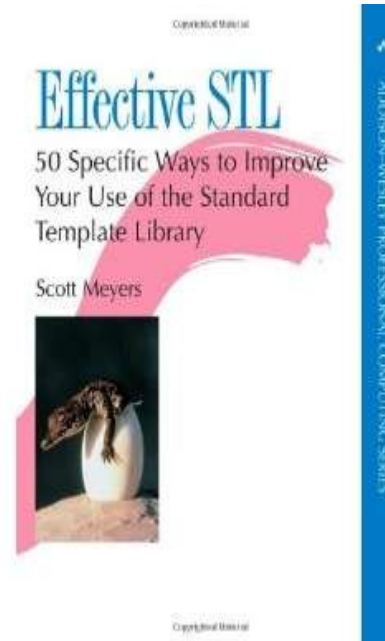
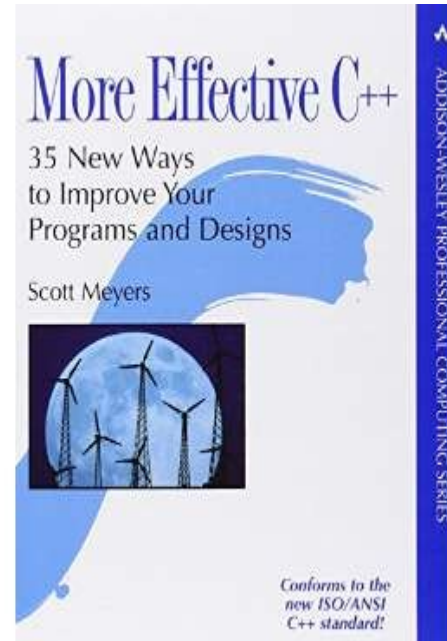
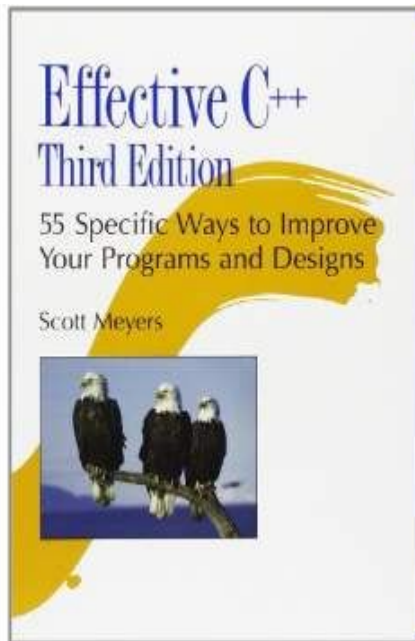
Making Good Changes

이슈를 수정하거나 필요한 기능을 추가하는 소스수정을 함

[Chromium design docs](#) 를 참고하여 개발

Follow the Chromium [code style guide](#)!

Study



python, javascript, html, java

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4. Uploading for review

Google CLA

https://cla.developers.google.com/about/google-individual



About | Manage Agreements

Products > Open Source Programs Office

Contributor License Agreements

Google Individual Contributor License Agreement

In order to clarify the intellectual property license granted with Contributions from any person or entity, Google Inc. ("Google") must have a Contributor License Agreement ("CLA") on file that has been signed by each Contributor, indicating agreement to the license terms below. This license is for your protection as a Contributor as well as the protection of Google; it does not change your rights to use your own Contributions for any other purpose.

You accept and agree to the following terms and conditions for Your present and future Contributions submitted to Google. Except for the license granted herein to Google and recipients of software distributed by Google, You reserve all right, title, and interest in and to Your Contributions.

1. Definitions.

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Add yourself to /AUTHOR

Issue [1415683010](#): cleanup/Remove deprecated notification from extension_functional_browserte

Can't Edit
[Publish+Mail Comments](#) ('m')
[Start Review](#)

reated:
month, 2 weeks ago by [sooho1000](#)

Modified:
month, 1 week ago

reviewers:
en Rockot, me

C:
chromium-reviews, chromium-apps-
reviews_chromium.org, extensions-
reviews_chromium.org

base URL:
<https://chromium.googlesource.com/chromium/src.git@>

▼ Description

```
cleanup/Remove deprecated notification from extension functional browser
```

BUG=[411568](#)
Committed: <https://crrev.com/5109c32e94dc20a1ab6f03c94d1cfbc22f114cd8>
Cr-Commit-Position: refs/heads/master@{#358559}

► Patch Set 1

▼ Patch Set 2 :

Created: 1 month, 1 week ago

	Unified diffs	Side-by-side
► M	AUTHORS	View
M	chrome/browser/extensions/extension_functional_browsertest.cc	View

```
Trybot results: win8 chromium ng win chromium compile dbg ng win chromium x
```

```
9 # See python fnmatch module documentation for more information.
10
```

(...skipping 522 matching lines...) [Expand 10 before](#) | [Expand all](#) | [Expand 10 after](#)

```
533 Shougun Liu <liushougun@xiaomi.com>  
534 Shougun Liu <shougun.liu@intel.com>  
535 Shreeram Kushwaha <shreeram.k@samsung.com>  
536 Shreyas Gopal <shreyas.g@samsung.com>  
537 Shreyas VA <v.a.shreyas@gmail.com>  
538 Siba Samal <siba.samal@samsung.com>  
539 Simon Arlott <simon.arlott@gmail.com>  
540 Siva Kumar Gunturi <siva.gunturi@samsung.com>  
541 Sohan Jyoti Ghosh <sohan.jyoti@samsung.com>  
542 Song YeWen <ffmpeq@gmail.com>
```

```
543 Soren Dreijer <dreijerbit@gmail.com>
544 Srirama Chandra Sekhar Mogali <srirama.m@samsung.com>
545 Stephen Searles <stephen.searles@gmail.com>
546 Steven Pennington <spenn@enqr.uvic.ca>
```

```
9 # See python fnmatch module documentation for more info.
10
```

```
ore | Expand all | Expand 10 after
33 Shouqun Liu <liushouqun@xiaomi.com>
34 Shouqun Liu <shouqun.liu@intel.com>
35 Shreeram Kushwaha <shreeram.k@samsung.com>
36 Shreyas Gopal <shreyas.g@samsung.com>
37 Shreyas VA <v.a.shreyas@gmail.com>
38 Siba Samal <siba.samal@samsung.com>
39 Simon Arlott <simon.arlott@gmail.com>
40 Siva Kumar Gunturi <siva.gunturi@samsung.com>
41 Sohan Jyoti Ghosh <sohan.jyoti@samsung.com>
42 Song YeWen <ffmpeg@gmail.com>
43 Sooho Park <sooho1000@gmail.com>
44 Soren Dreijer <dreijerbit@gmail.com>
45 Srirama Chandra Sekhar Mogali <srirama.m@sams
46 Stephen Searles <stephen.searles@gmail.com>
47 Steven Pennington <spenn@enqr.uvic.ca>
```

Why code reviews?

Chromium has a large, complicated code base with many layers of abstractions that paper over tricky IPC, threading, and resource management semantics.

Reviews are done by uploading your change to Chromium's Rietveld instance at <http://codereview.chromium.org>

All code should be reviewed prior to checkin.

Uploading code

```
git branch -b mybranch;
```

```
<코드 수정...>
```

```
git commit -am"My change";
```

```
git cl upload
```

Uploading code

```
1 # Enter a description of the change.$
2 # This will be displayed on the codereview site.$
3 # The first line will also be used as the subject of the review.$
4 #-----This line is 72 characters long-----$
5 [Extension UI] Observing WebContentsObserver from extension_settings_handler.cc$
6 $
7 ExtensionSettingsHandler still inherit content::WebContentsObserver.$
8 but starting observing code is removed by mistake.$
9 this caused unpacked extension is not reloaded when pressing CTRL+R$
10 $
11 BUG=526945$
```

```
<lders/g3/z_7ycbrn7nv0dhzhngt5t8bm0000an/T/cl_description0NUDyH" 11L, 505C written 9.10
```

All

Uploading code

```
> git cl upload
Using 50% similarity for rename/copy detection. Override with --similarity.
Running presubmit upload checks ...
Done processing /Users/limsungguk/program_store/chromium/src/chrome/browser/ui/views/toolbar/chevron_menu_button.cc

** Presubmit Messages **
Missing OWNER reviewers for these files:
  chrome/browser/ui/views/toolbar/chevron_menu_button.cc

Suggested OWNERS: (Use "git-cl owners" to interactively select owners.)
  rdevlin.cronin@chromium.org

Presubmit checks passed.
  chrome/browser/ui/views/toolbar/chevron_menu_button.cc | 4 ++--
  1 file changed, 2 insertions(+), 2 deletions(-)

<lders/q3/z_7ycbrn7nv0dhzhnqt5t8bm0000gn/T/cl_description0NUdyH" 11L, 505C written
Upload server: https://codereview.chromium.org (change with -s/--server)
Issue created. URL: https://codereview.chromium.org/1541663002
Uploading base file for chrome/browser/ui/webui/extensions/extension_settings_handler.cc

# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (bug_fix)
>
```

생성된 코드리뷰 주소를 얻을수 있음

<https://codereview.chromium.org/1536213002/>

Uploading code

← → ↺ 🏠

🔒 <https://codereview.chromium.org/1536213002/>

🔍 🚩 ☆

Apps 📄 test 🏠 team/tvs 브랜치 튜... 📄 Extensions 🌐 <https://codereview....> 📁 C

Chromium Code Reviews

limasdf@gmail.com (limasdf) | [Settings](#) | [Help](#) | [Chromium](#)

Issues 🔍 Search

[My Issues](#) | [Starred](#) | [Open](#) | [Closed](#) | [All](#)

☆ 🌐 Issue [1536213002](#): [Extension UI] Observing WebContentsObserver from extension_settings_handler.cc

[Edit Issue](#)

[Publish+Mail Comments \('m'\)](#)

[Start Review](#)

Created:

5 hours, 54 minutes ago by me

Modified:

5 hours, 48 minutes ago

Reviewers:

[Devlin](#)

CC:

chromium-reviews, chromium-apps-reviews_chromium.org, extensions-reviews_chromium.org

Base URL:

<https://chromium.googlesource.com/chromium/src.git@master>

Target Ref:

refs/pending/heads/master

Project:

▼ Description

[Extension UI] Observing WebContentsObserver from extension_settings_handler.cc

ExtensionSettingsHandler still inherit content::WebContentsObserver.
but starting observing code is removed by mistake.
this caused unpacked extension is not reloaded when pressing CTRL+R

BUG=[526945](#)

▼ Patch Set 1 [\(edit\)](#)

Created: 5 hours, 54 minutes ago

Download

Unified diffs	Side-by-side diffs	Delta from patch set	Stats (+2 lines, -0 lines)
▶ M chrome/browser/ui/webui/extensions/extension_settings_handler.cc View 1 chunk +2 lines, -0 lines 0 comm			
Trybot results: linux_chromium_rel_ng Choose trybots CQ dry run			
Commit: <input type="checkbox"/> CQ not working?			
Revert Patchset Issue must be closed to Revert			

Sending out review

No one will notice your code review until you **Publish+Mail Comments** from reitveld.

[Edit Issue](#)

[Publish+Mail Comments](#) ('m')

[Start Review](#)

Created:

1 month, 2 weeks ago by me

Modified:

1 day, 17 hours ago

Reviewers:

[awong](#)

Publish + Mail Draft Comments

Subject: Initial StateMatrix idea using composition and void*

Reviewers: awong

CC: chromium-reviews@chromium.org, scherkus, fbarchard, aw

Send mail: ☒

Message:

Hello I'd like you to review my code.

The message will be included in the email sent (if any).

[Publish All My Drafts](#)

Code review

« extensions/common/extension_builder.h ('K') | « extensions/common/extension_builder.h ('k') | extensions/common/test_util.h » ('j') | no next file with comments »
[Toggle Intra-line Diffs \('i'\)](#) | [Expand Comments \('e'\)](#) | [Collapse Comments \('c'\)](#) | [Hide Comments \('s'\)](#)

OLD	NEW
1 // Copyright 2013 The Chromium Authors. All rights reserved. 2 // Use of this source code is governed by a BSD-style license that can be 3 // found in the LICENSE file. 4 5 #include "extensions/common/extension_builder.h" 6 7 #include "extensions/common/extension.h" 8 9 namespace extensions { 10 11 ExtensionBuilder::ExtensionBuilder() 12 : location_(Manifest::UNPACKED), 13 flags_(Extension::NO_FLAGS) { 14 } 15 ExtensionBuilder::~ExtensionBuilder() {} 16	1 // Copyright 2013 The Chromium Authors. All rights reserved. 2 // Use of this source code is governed by a BSD-style license that can be 3 // found in the LICENSE file. 4 5 #include "extensions/common/extension_builder.h" 6 7 #include "extensions/common/extension.h" 8 9 namespace extensions { 10 11 ExtensionBuilder::ExtensionBuilder() 12 : location_(Manifest::UNPACKED), 13 flags_(Extension::NO_FLAGS) { 14 } 15 ExtensionBuilder::~ExtensionBuilder() {} 16 17 ExtensionBuilder::ExtensionBuilder(ExtensionBuilder&& other) 18 : path_(other.path_), danakj (behind on reviews) 2015/12/09 18:46:44 move the string instead of copying it? Reply Done Ack me 2015/12/16 09:34:54 Done. 19 location_(other.location_), 20 manifest_(other.manifest_.release()), danakj (behind on reviews) 2015/12/09 18:46:44 why isn't this manifest_(std::move(other.manifest_))? Reply Done Ack me 2015/12/16 09:34:54 Done. 21 flags_(other.flags_), 22 id_(other.id_) {} danakj (behind on reviews) 2015/12/09 18:46:44 move the string dont copy? Reply Done Ack me 2015/12/16 09:34:54 Done. 23 24 scoped_refptr<Extension> ExtensionBuilder::Build() { 25 std::string error; 26 scoped_refptr<Extension> extension = Extension::Create(27

Uploading code

리뷰를 받은후 코드수정을 해준다.

```
git branch -b mybranch;
```

<코드 수정...>

```
git commit -am"My change";
```

```
git cl upload
```

and then **Sending out review again.**

LGTM (Looks good to me)

mium/src.git@

Total comments: 5

▼ **Patch Set 4 : review (returning rvalue)** [\(edit\)](#)

Total comments: 3

Created: 3 days, 9 hours ago Download [\[raw\]](#) [\[tar.bz2\]](#)

Unified diffs	Side-by-side diffs	Delta from patch set	Stats (+48 lines, -27 lines)	Pe
M chrome/browser/extensions/api/file_system/file_system_api_unittest.cc	View	1	4 chunks +6 lines, -4 lines 0 comments	Dc
M chrome/browser/extensions/permission_messages_unittest.cc	View		2 chunks +2 lines, -2 lines 0 comments	Dc
M chrome/browser/ui/webui/media_router/media_router_ui_unittest.cc	View	1	1 chunk +1 line, -1 line 0 comments	Dc
M chrome/common/extensions/api/common_extension_api_unittest.cc	View		2 chunks +5 lines, -5 lines 0 comments	Dc
M extensions/common/extension_builder.h	View	1	2 chunks +6 lines, -4 lines 0 comments	Dc
M extensions/common/extension_builder.cc	View	1	2 chunks +18 lines, -0 lines 0 comments	Dc
M extensions/common/test_util.h	View	1 2 3	1 chunk +2 lines, -2 lines 0 comments	Dc
M extensions/common/test_util.cc	View	1 2 3	2 chunks +8 lines, -9 lines 3 comments (1 by me)	Dc

Trybot results: [mac_chromium_rel_ng](#) [win_chromium_rel_ng](#) [linux_chromium_chromeos_rel_ng](#) [linux_chromium_rel_ng](#)

► **Patch Set 5 : nit change(dana review)** [\(edit\)](#)

▼ **Messages**

Total messages: 34 (20 generated)

[Expand Messages](#) | [Collapse Messages](#) | [Show Generated Messages](#) | [Hide Generated Messages](#)

me Dana, Could you take a first look at extensions/common/extension_builder.{h,cc} ? It's pretty simila 1 week, 4 days ago (2015-12-09 15:20:18)

danakj (behind on reviews) <https://codereview.chromium.org/1511103003/diff/20001/extensions/com> 1 week, 3 days ago (2015-12-09 18:46:44)

me Dana, Could you share your wisdom? It failed only from Windows. Here's Backtrace on my ... 4 days, 5 hours ago (2015-12-16 09:34:54 U

danakj (behind on reviews) <https://codereview.chromium.org/1511103003/diff/190001/extensions/> 3 days, 20 hours ago (2015-12-16 18:57:49 U

danakj (behind on reviews) <https://codereview.chromium.org/1511103003/diff/190001/extensions/> 3 days, 20 hours ago (2015-12-16 19:06:04 U

me adding Antony, the owner of extension. btw, I'm wondering why *only Windows trybot has failed . 3 days, 9 hours ago (2015-12-17 06:19:46 U

asargent (away until Dec 29) 2 days, 17 hours ago (2015-12-17 22:09:08 U

lgm

[Reply](#)

danakj (behind on reviews) On Wed, Dec 16, 2015 at 10:19 PM, <limasdf@gmail.com> wrote: > ac 2 days, 17 hours ago (2015-12-17 22:21:19 U

danakj (behind on reviews) LGTM <https://codereview.chromium.org/1511103003/diff/230001/exter> 2 days, 17 hours ago (2015-12-17 22:22:02 U

me https://codereview.chromium.org/1511103003/diff/230001/extensions/common/test_util.cc File 2 days, 14 hours ago (2015-12-18 00:31:58 U

commit-bot: I haz the power CQ is trying da patch. Follow status at <https://chromium-cq-status.app>: 2 days, 14 hours ago (2015-12-18 00:34:13 U

danaki (behind on reviews) <https://codereview.chromium.org/1511103003/diff/230001/extensions/> 2 days, 14 hours ago (2015-12-18 00:38:49 U

<https://codereview.chromium.org/1511103003/>

Tips

Follow the style guide!!!

Write a descriptive, easy to understand, change description.

Always try to include tests when possible.

Keep your changes small. It's much easier for reviewers to understand and review your change. Split up unrelated changes.

Before attempting a big change, email your reviewers and discuss to make sure your approach is good.

Read [contributing code](#) for more information.

Overview

How does one get involved in Chromium development?
Usually, you do some variant on the following work flow:

1. Get a machine that can build Chromium
2. Get the code
3. Modify and build the code
4. Upload and review code
5. Commit patch and waiting game

Troubleshooting

In open source, no one can hear
you scream

Feeling lost? Need help?

First, do your research:

- Search mail archives & change history
- If applicable, see what older revisions, or other browsers do

Then:

- Ask on IRC freenode.net? #chromium
- Chromium-dev - Google Groups
- GDG Korea : <https://gdgkr.herokuapp.com/>

THE END

Start writing code!

따라하기

처음할 때는
절대 큰 패치보다는
작은 패치로

실전 도전해보기!

<https://crbug.com/554289>

기존:

STL Container에 smart pointer를 쓰는 대신에 raw pointer를 STL Container에 쓰고 destructor에서 raw pointer들을 delete를 해주었음

변경:

하지만 C++11에서 move-only 를 갖는 클래스를 지원하므로 STL container도 smart pointer를 쓸수있음

s/ ScopedVector<T> / std::vector<scoped_ptr<T>> / g

1. 브랜치를 생성하고

2. 파일을 수정하고

3. 빌드를한다

```
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (master)
> git checkout -b mypatch
M      chrome/browser/ui/views/toolbar/chevron_menu_button.cc
Switched to a new branch 'mypatch'
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (mypatch)
> git diff
diff --git a/chrome/browser/ui/views/toolbar/chevron_menu_button.cc b/chrome/browser/ui/views/toolbar/chevron_menu_button.cc
index 2e87277..bcea312 100644
--- a/chrome/browser/ui/views/toolbar/chevron_menu_button.cc
+++ b/chrome/browser/ui/views/toolbar/chevron_menu_button.cc
@@ -144,7 +144,7 @@ class ChevronMenuButton::MenuController : public views::MenuDelegate {
    // The vector keeps all icon updaters associated with menu item views in the
    // controller. The icon updater will update the menu item view's icon when
    // the browser action view's icon has been updated.
-   ScopedVector<IconUpdater> icon_updaters_;
+   std::vector<scoped_ptr<IconUpdater>> icon_updaters_;

    DISALLOW_COPY_AND_ASSIGN(MenuController);
};
@@ -179,7 +179,7 @@ ChevronMenuButton::MenuController::MenuController(
    view->view_controller()->GetTooltip(view->GetCurrentWebContents()),
    command_id);

-   icon_updaters_.push_back(new IconUpdater(menu_item, view));
+   icon_updaters_.push_back(make_scoped_ptr(new IconUpdater(menu_item, view)));

    ++command_id;
}
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (mypatch)
> ninja -C out/Debug chrome
ninja: Entering directory `out/Debug'
[12/12] STAMP Chromium.app
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (mypatch)
> █
```

```
[12/12] STAM chromium.app
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (mypatch)
> git commit -am "My first patch"
[mypatch 9a4950b] My first patch
1 file changed, 2 insertions(+), 2 deletions(-)
# LIMSUNGs-MacBook-Pro ~/program_store/chromium/src (mypatch)
> git cl upload
```

```
> git cl upload
Using 50% similarity for rename/copy detection. Override with --similarity.
Running presubmit upload checks ...
Done processing /Users/limsungguk/program_store/chromium/src/chrome/browser/ui/views/toolbar/chevron_menu_button.cc

** Presubmit Messages **
Missing OWNER reviewers for these files:
    chrome/browser/ui/views/toolbar/chevron_menu_button.cc

Suggested OWNERS: (Use "git-cl owners" to interactively select owners.)
    rdevlin.cronin@chromium.org

Presubmit checks passed.
chrome/browser/ui/views/toolbar/chevron_menu_button.cc | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)
```

```
1 # Enter a description of the change.$
2 # This will be displayed on the codereview site.$
3 # The first line will also be used as the subject of the review.$
4 #-----This line is 72 characters long-----$
5 Remove ScopedVector$
6 $
7 BUG=554289$
~
```


<https://codereview.chromium.org/1537263002>

⊗ **Issue** [1537263002](#): Remove ScopedVector

[dit Issue](#)
[ublish+Mail Comments](#) ('m')
[tart Review](#)

reated:
hours, 32 minutes ago by me

lodied:
4 minutes ago

iewers:

C:
romium-reviews, tfarina

ase URL:
<https://chromium.googlesource.com/chromium/src.git@master>

arget Ref:
:fs/pending/heads/master

roject:
[romium](#)

isibility:
ublic

▼ **Description**

Remove ScopedVector

BUG=[554289](#)

▼ **Patch Set 1** [\(edit\)](#)

Created: 3 hours, 32 minutes ago

Unified diffs		Side-by-side diffs	Delta from patch set
---------------	--	--------------------	----------------------

► M [chrome/browser/ui/views/toolbar/chevron_menu_button.cc](#) View

Trybot results: | [Choose trybots](#) | [CQ dry run](#)

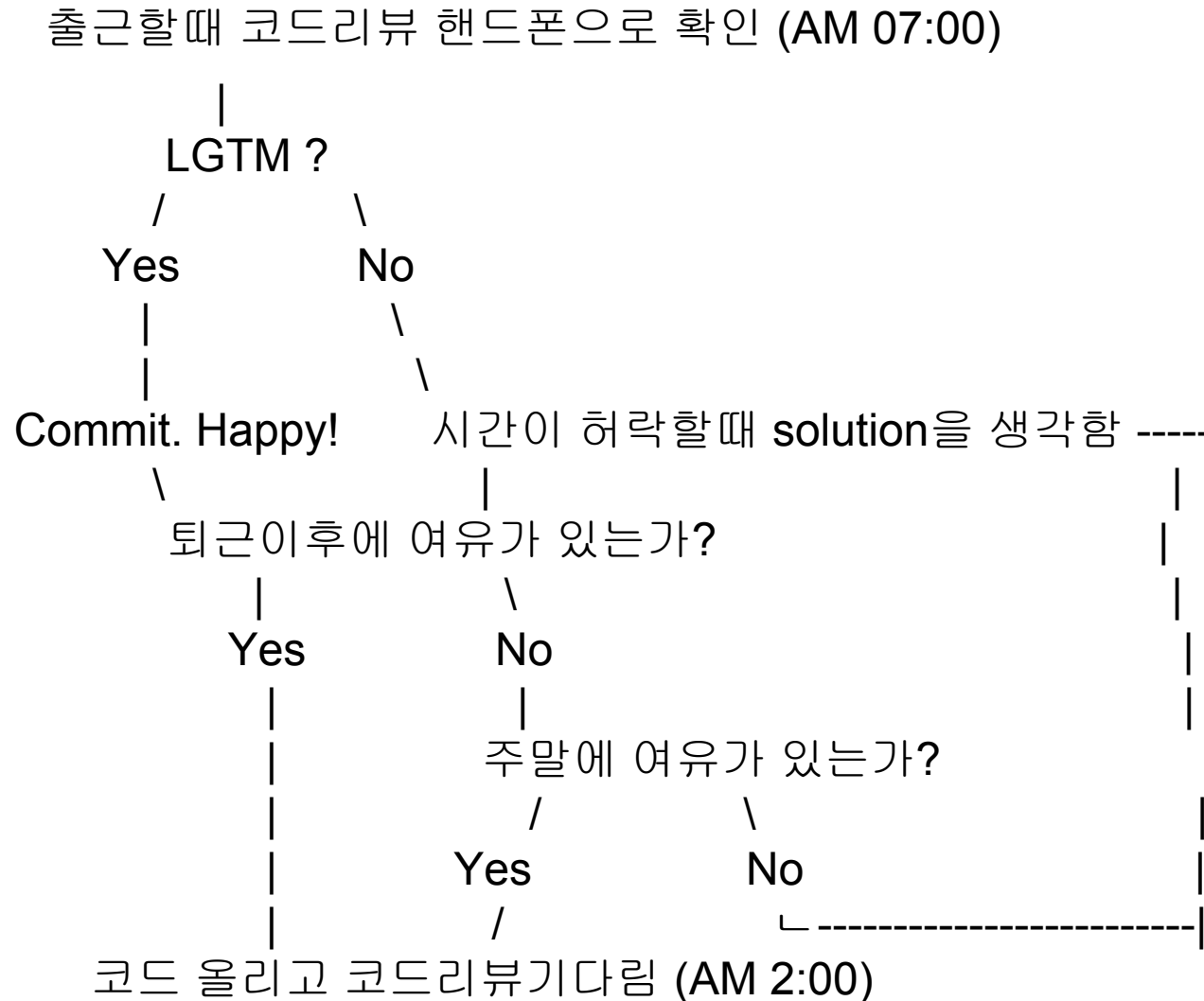
Commit: ☐ [CQ not working?](#)

[Revert Patchset](#) Issue must be closed to Revert

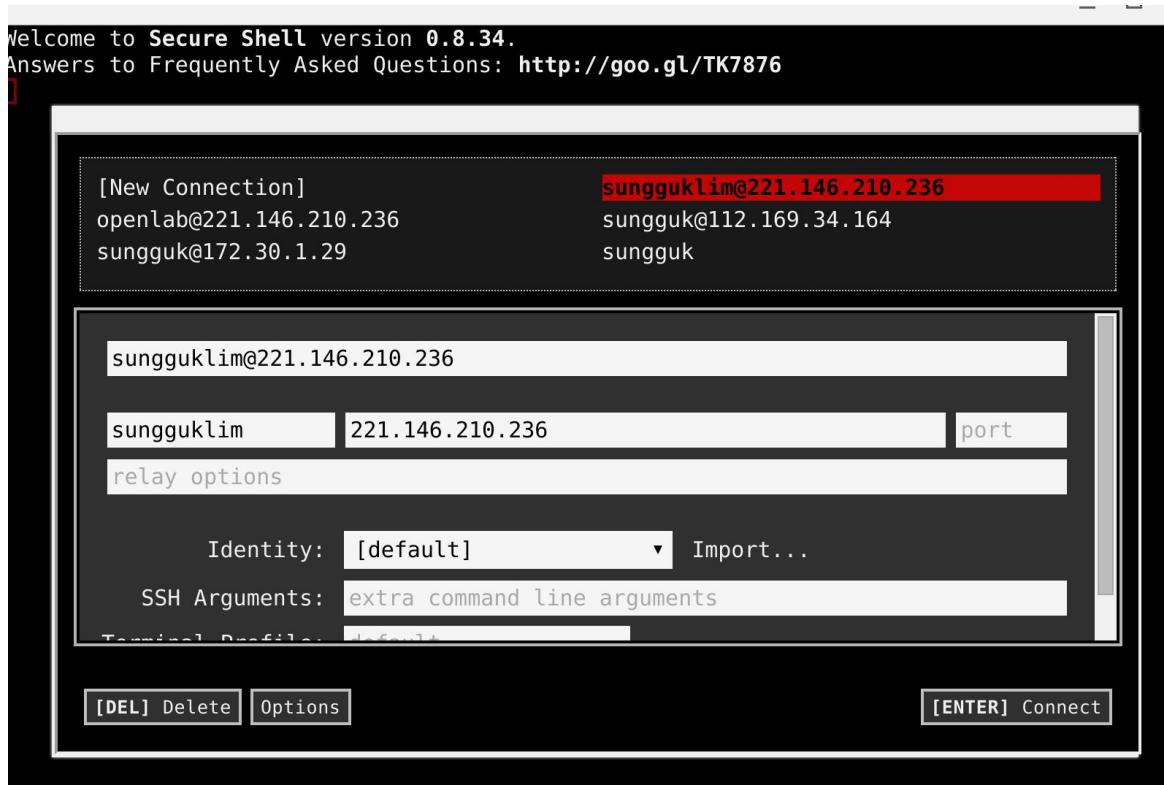
Q & A

Q. Too busy, no time to contribute to open source.

A. sungguk's When to contribute to opensource contributor flow chart (PATENT PENDING)



Q. Too busy, no time to contribute to open source.



A. 집에 SSH서버를 돌려 원격으로 접속하여 어디에서나 접속하여 개발 및 빌드

Q. 오픈소스 활동으로 얻는 것?

Fun; It's a kind of SNS

개발 프로세스(Agile, unittest, design doc ...)

Communication skills

English skills

무료 코딩 과외*

단점: 회사일이 싫어짐

GDG Korea

<https://gdgkr.herokuapp.com/>

The End