Contributing to CHROMIUM

(OR: ALL YOUR CODE COULD BELONG TO US)
@NOTWALDORF
NOMS@CHROMIUM.ORG
Act 1:

THE LONG CON
OPEN SOURCE
USER IMPACT
GOOD DOCUMENTATION
GIANT CODEBASE
NEED A BEEFY MACHINE
Act 2:
THE SETUP
GET THE CODE
git pull && gclient sync
GET THE CODE

```bash
ninja  -C  out/Debug  chrome
```
GET THE CODE

ninja -C out/Release chrome
GET THE CODE

```
ninja -C out/Release tests
```
GET THE CODE

GET ANOTHER COFFEE
GET THE CODE

BUILD THE CODE

💥😎💥😎💥
GET THE CODE

BUILD THE CODE

git commit
Intermission!

LET'S TALK ABOUT TOOLS
GENERATE BUILD FILES

gclient sync
BUILD THE CODE
ninja
UPLOAD YOUR CODE

git cl upload
UPLOAD YOUR CODE

git cl upload

KINDA LIKE  git push
TEST YOUR CODE ON BOTS

git cl try
DOWNLOAD FROM CODE REVIEW

git cl patch
GET THE NEW CODE

git pull
WHAT IS UP?

git status -sb
MAKE A BRANCH

git checkout -b foo
UPDATE A BRANCH

git rebase master
SAVE YOUR CODE

git commit
<table>
<thead>
<tr>
<th>ID</th>
<th>Pri</th>
<th>M</th>
<th>ReleaseBlock</th>
<th>Cr</th>
<th>Status</th>
<th>Owner</th>
<th>Summary + Labels</th>
<th>OS</th>
<th>Modified</th>
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<tbody>
<tr>
<td>147633</td>
<td>3</td>
<td></td>
<td></td>
<td>Internals</td>
<td>Available</td>
<td></td>
<td>Teach include to OWNERS CalPoly</td>
<td>-----</td>
<td>77 minutes ago</td>
</tr>
<tr>
<td>217661</td>
<td>2</td>
<td></td>
<td></td>
<td>Enterprise</td>
<td>Available</td>
<td><a href="mailto:mniessler@chromium.org">mniessler@chromium.org</a></td>
<td>Log enrollment state at device boot up</td>
<td>Chrome</td>
<td>10 hours ago</td>
</tr>
<tr>
<td>452288</td>
<td>3</td>
<td></td>
<td></td>
<td>UI</td>
<td>Available</td>
<td></td>
<td>Apostrophes should be curly quotes</td>
<td>All</td>
<td>15 hours ago</td>
</tr>
<tr>
<td>276508</td>
<td>2</td>
<td></td>
<td>Platform-Appliances-FileManager</td>
<td>Assigned</td>
<td><a href="mailto:hirono@chromium.org">hirono@chromium.org</a></td>
<td>File.app don't alert about write protected SD Card</td>
<td>Chrome</td>
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<td></td>
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<td>253755</td>
<td>2</td>
<td></td>
<td>UI</td>
<td>Assigned</td>
<td><a href="mailto:shrike@chromium.org">shrike@chromium.org</a></td>
<td>Fix HyperlinkTextView API</td>
<td>Mac</td>
<td>22 hours ago</td>
<td></td>
</tr>
<tr>
<td>365779</td>
<td>2</td>
<td></td>
<td>Blink, Security-UX, Security-UX, WebDev</td>
<td>Available</td>
<td></td>
<td>Notify in console when an API fails because it needs to be called during a user action.</td>
<td>All</td>
<td>22 hours ago</td>
<td></td>
</tr>
<tr>
<td>152427</td>
<td>2</td>
<td></td>
<td>Internals, Platform-Appliances, Platform-Extensions, Webstore</td>
<td>Started</td>
<td><a href="mailto:rockot@chromium.org">rockot@chromium.org</a></td>
<td>Support multiple verified domains in inline installation</td>
<td>-----</td>
<td>28 hours ago</td>
<td></td>
</tr>
<tr>
<td>415918</td>
<td>2</td>
<td></td>
<td>Internals-Skia</td>
<td>Started</td>
<td><a href="mailto:tomhudson@chromium.org">tomhudson@chromium.org</a></td>
<td>White text drawn onto white background is not (exactly) white</td>
<td>Linux</td>
<td>29 hours ago</td>
<td></td>
</tr>
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// A custom Image control that shows a "change" v-s Git

class EditableProfilePhoto : public views::Label
{
  public:
    EditableProfilePhoto(views::ButtonListener* listener, Label* label, views::LabelButton* label_button);

    gfx::ImageImage() = profiles::GetAvatarIcon(
        icon, true, XLargeImageSide, XLargeImageSide);
    SetImage(views::LabelButton::STATE_NORMAL, *image.ToImageSkia());
    SetBorder(views::Border::NullBorder());
    SetBoundsRect(bounds);

  // Calculate the circular mask that will be used to display the
  circular_mask_.addCircle(SkIntToScalar(bounds.width() / 2),
    SkIntToScalar(bounds.height() / 2),
    SkIntToScalar(bounds.width() / 2));

  if (!is_editing_allowed) {
    SetEnabled(false);
    return;
  }
}
A custom Image control that shows a "change" v-ssed

```
// A custom Image control that shows a "change"

class EditableProfilePhoto : public views::Label
{
  explicit EditableProfilePhoto(views::ButtonListener* listener,
                               const gfx::Image& icon,
                               bool is_editing_allowed,
                               const gfx::Rect& bounds)
    : views::LabelButton(listener, base::string16()),
     photo_overlay_(NULL)
  {
    gfx::Image image = profiles::GetSizedAvatarIcon(
        icon, true, kLargeImageSide, kLargeImageSide);
    SetImage(views::LabelButton::STATE_NORMAL, *image.ToImageSkia());
    SetBorder(views::Border::NullBorder());
    SetBoundsRect(bounds);

    // Calculate the circular mask that will be used to display the
    circular_mask_.addCircle<Scalar>(bounds.width() / 2),
        SkIntToScalar(bounds.height() / 2),
        SkIntToScalar(bounds.width() / 2));

    if (!is_editing_allowed) {
        SetEnabled(false);
        return;
  }
```
// A custom Image control that shows a "change" visual when used

class EditableProfilePhoto : public views::Label v-a Git Blame
public:

EditableProfilePhoto(views::ButtonListener* listener,
const gfx::Image& icon,
bool is_editing_allowed,
const gfx::Rect& bounds)
: views::LabelButton(listener, base::string16()),
  photo_overlay_(NULL) {
  gfx::Image image = profiles::GetSizedAvatarIcon(
      icon, true, kXLargeImageSide, kXLargeImageSide);
  SetImage(views::LabelButton::STATE_NORMAL, *image.ToImageSkia());
  SetBorder(views::Border::NullBorder());
  SetBoundsRect(bounds);

  // Calculate the circular mask that will be used to display the
  circular_mask_.addCircle(SkIntToScalar(bounds.width()) / 2),
      SkIntToScalar(bounds.height()) / 2),
  SkIntToScalar(bounds.width()) / 2));

  if (!is_editing_allowed) {
    SetEnabled(false);
    return;
}
// A custom Image control that shows a "change" v-s Git sed

```cpp
// class EditableProfilePhoto : public views::Label

public:

    EditableProfilePhoto(views::ButtonListener* listener,
                         const gfx::Image& icon,
                         bool is_editing_allowed,
                         const gfx::Rect& bounds)
        : views::LabelButton(listener, base::string16()),
         photo_overlay_(NULL) {
        gfx::Image image = profiles::GetAvatarIcon(
            true, kLargeImageSize, kLargeImageSize);
        SetImage(views::LabelButton::STATE_NORMAL, *image.ToImageSkia());
        SetBorder(views::Border::NullBorder());
        SetBoundsRect(bounds);

    // Calculate the circular mask that will be used to display the
    circular_mask_.addCircle(SkIntToScalar(bounds.width()) / 2),
                            SkIntToScalar(bounds.height()) / 2),
                            SkIntToScalar(bounds.width() / 2));

    if (!is_editing_allowed) {
        SetEnabled(false);
    }
```
Act 3

CODE REVIEWS
PIET MONDRIAN

DE STIJL
GERRIT RIETVELD
🙌 DE STIJL 🙌
# Issues for Monica Dinculescu

## Incoming reviews (3)

<table>
<thead>
<tr>
<th>Id</th>
<th>Subject</th>
<th>Owner</th>
<th>Reviewers</th>
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</thead>
<tbody>
<tr>
<td>🌟 🌟 872433006</td>
<td>Disconnect one click sign in code. The code itself will be removed in followup</td>
<td>Roger Tawa</td>
<td>me</td>
</tr>
<tr>
<td>🌟 🌟 871893003</td>
<td>Browser test for launching guest mode from the User Manager.</td>
<td>Mike Lerman</td>
<td>me</td>
</tr>
<tr>
<td>🌟 🌟 137233020 [OSX] Guarantee HoverImageButton's sizeToFit works.</td>
<td>groby</td>
<td>me</td>
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</table>

## Outgoing reviews (2)

<table>
<thead>
<tr>
<th>Id</th>
<th>Subject</th>
<th>Owner</th>
<th>Reviewers</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 🌟 643313002</td>
<td>[Testing only. Don't commit this] Sample CL to test Rietveld selfies</td>
<td>me</td>
<td>Jesse Doherty</td>
</tr>
<tr>
<td>🌟 🌟 522753002</td>
<td>Add keyboard accelerators for the User Manager</td>
<td>me</td>
<td>Roger Tawa</td>
</tr>
</tbody>
</table>

## Unsent issues (2)

<table>
<thead>
<tr>
<th>Id</th>
<th>Subject</th>
<th>Owner</th>
<th>Reviewers</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 🌟 866523002</td>
<td>Add Autofill to webview</td>
<td>me</td>
<td></td>
</tr>
<tr>
<td>🌟 🌟 33753002</td>
<td>Sooper experimental refactoring of the profile info cache.</td>
<td>me</td>
<td></td>
</tr>
</tbody>
</table>

## Issues CCd to (1)

<table>
<thead>
<tr>
<th>Id</th>
<th>Subject</th>
<th>Owner</th>
<th>Reviewers</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 🌟 563293002</td>
<td>Make autolinking of bug references stricter.</td>
<td>Jason Robbins</td>
<td>Jason Robbins -- corp, iannu</td>
</tr>
</tbody>
</table>
The fast user switcher should use the small, non-high res default avatars.

Description

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=447311

TEST: Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e. not the high res images with the grey background)

Committed: https://crrev.com/9b3e2f24a690485180955b6859c25a1932a39c1a
Cr-Commit-Position: refs/heads/master@(#315043)

Patch Set 1 (edit)

Total comments: 2

Patch Set 2: bad camelCase, bad (edit)
**Issue 900223004: [Mac, Win] The fast user switcher should use the small, non-high res default avatars (Closed)**

**Description**

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

**Patch Set 1**

**Total comments:** 2

**Patch Set 2: bad camelCase, bad**

**Download**

- [raw](#)
- [tar.bz2](#)
- [Delete](#)

<table>
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<tr>
<th>Created</th>
<th>Stats (+16 lines, -2 lines)</th>
<th>Patch</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 days, 3 hours ago</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Messages**

- 10 (3 generated)

**Expand Messages** | **Collapse Messages** | **Show Generated Messages** | **Hide Generated Messages**

- me: This CL makes the avatars used in the avatar bubble's fast user switchers consistent with .... 3 days, 21 hours ago (2015-02-05 21:25:33 UTC) #2
- Alexei Svitkine igm: 3 days, 21 hours ago (2015-02-05 21:27:45 UTC) #3
- sky: LGTM https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profiles/profile_... 3 days, 17 hours ago (2015-02-06 01:03:03 UTC) #4
- me: https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profiles/profile_chooser... 3 days, 2 hours ago (2015-02-06 15:53:38 UTC) #6
- I haz the power (commit-bot) CQ is trying da patch. Follow status at https://chromium-cq-status.appspot... 3 days, 2 hours ago (2015-02-06 15:54:36 UTC) #8
- I haz the power (commit-bot) Committed patchset 2 (id:20001) 3 days, 2 hours ago (2015-02-06 16:20:37 UTC) #9
- I haz the power (commit-bot) 3 days, 2 hours ago (2015-02-06 16:21:12 UTC) #10

Message was sent while issue was closed.
Patchset 2 (id:??) landed as https://codereview.chromium.org/9b3e2f74a690e58518095b6859c25a1932a39c1a
Description

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=447311
TEST=Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e. not the high res images with the grey background)

Committed: https://crrev.com/9b3e2f24a690948518095b6859c25a1932a39c1a
Cr-Commit-Position: refs/heads/master@{#315043}
Description:

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=447311

Text-Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e., not the high res images with the grey background)

Committed: https://coreйте.com/9b3a2f23a659968618095b6859c25e1932a39c1a
Cr-Commit-Position: refs/heads/master@(#315043)

Patch Set 1

Patch Set 2: bad camelCase, bad
[Mac, Win] The fast user switcher should use the small, non-high res default avatars (Closed)

Description

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=447315
TSST=Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e. not the high res images with the grey background)

Committed: https://codereview.chromium.org/93be2f72a69048518095b6859c25e1932a390ca
Cr-Commit-Position: refs/heads/master@(#)315043

Patch Set 1  (edit)

Patch Set 2 : bad camelCase, bad  (edit)

Commit: 3 days, 3 hours ago
Download [raw] [tar.bz2] | Delete
Unified diffs

M chrome/browser/ui/cocoa/profiles/profileChooserController.mm View 1 chunk +5 lines, -1 line 0 comments Download
M chrome/browser/ui/views/profiles/profile_chooser_view.cc View 1 chunk +5 lines, -1 line 0 comments Download

Trybot results: linux_chromium_chromeos_rel ng win_chromium_rel ng win_chromium_x64_rel ng chromium_presubmit win_gpu_triggered_tests linux_chromium_chromeos_rel ng linux_chromium_asan_rel mac_chromium_rel ng win_chromium_rel ng win_chromium_compile_dbg ng android_plang_dbg_recipe linux_chromium_gn_dbg linux_chromium_chromeos_compile_dbg ng android_arm64_dbg_recipe linux_chromium_gn_rel win_gnu android_compile_dbg ios_dbg_simulator linux_chromium_gn_chromeos_rel android_soap android_chromium_gn_compile_dbg mac_chromium_compile_dbg ng linux_chromium_compile_dbg_32 ng android_chromium_gn_compile_dbg android_gdb_tests_recipe ios_rel_device_ng ios_rel_device_ninja_ng | More>>>

Commit: 3 days, 3 hours ago
Download [raw] [tar.bz2] | Delete
Unified diffs

M chrome/browser/ui/cocoa/profiles/profileChooserController.mm View 3 chunk +5 lines, -1 line 0 comments Download
M chrome/browser/ui/views/profiles/profile_chooser_view.cc View 1 chunk +5 lines, -1 line 0 comments Download

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M chrome/browser/ui/views/profiles/profile_chooser_view.cc View 1 chunk +5 lines, -1 line 0 comments Download

sky

LGT

https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profileChooserController.mm View 3 chunk +5 lines, -1 line 0 comments Download
M chrome/browser/ui/views/profiles/profile_chooser_view.cc View 1 chunk +5 lines, -1 line 0 comments Download

https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profileChooserController.mm View 3 chunk +5 lines, -1 line 0 comments Download
M chrome/browser/ui/views/profiles/profile_chooser_view.cc View 1 chunk +5 lines, -1 line 0 comments Download

You've been writing too match mac code:
item_icon
is_rectangle.

Reply

Patchset 2 (diff) landed as
https://codereview.chromium.org/93be2f72a69048518095b6859c25e1932a390ca
Digression

OWNERS & OWNER FILES
# ProfileManager and GetDefaultProfile and related

# Primarily for ProfileIOData and friends.

per-file incognito_mode_policy_handler*=atwilson@chromium.org
per-file incognito_mode_policy_handler*=mnnissler@chromium.org
per-file profile_metrics*=mlerman@chromium.org
per-file host_zoom_map_browsertest.cc=wjmacleann@chromium.org
The fast user switcher should use the small, non-high res default avatars (Closed)

**Description**

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

**Bug:** crbug/647311

Test: Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e. not the high res images with the grey background)

Committed: https://srcrev.com/3b3a2f34a659d68518095b6859c25a1932a39c1a
Cr-Commit-Position: refs/heads/master@(#315043)

**Patch Set 1**

Total comments: 2

**Patch Set 2:** bad camelCase, bad

--sky

LGTМ

https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profiles/profile_choser_controller.mm

File chrome/browser/ui/views/profiles/profile_choser_controller.cc (right):

https://codereview.chromium.org/900223004/diff/1/chrome/browser/ui/views/profiles/profile_choser_controller.cc (right):

You've been writing too match mac code:

```
item_icon
is_rectangle.
```

Reply

Patchset 2 (1/2) landed as

https://srcrev.com/3b3a2f34a659d68518095b6859c25a1932a39c1a
The fast user switcher should use the small, non-high res default avatars

Description
[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=457311
TEST=Start Chrome with --enable-fast-user-switching. In the avatar bubble, any profiles with default avatar should display the low res, transparent background images (i.e. not the high res images with the grey background).

Committed: https://crrev.com/9b3e1f32e59998e8518095b08590c25a1932a39c1a
Cr-Commit-Position: refs/heads/master(#315043)

Patch Set 1

Patch Set 2: bad camelCase, bad
Description

[Mac, Win] The fast user switcher should use the small, non-high res default avatars

BUG=447311

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Committed: https://projectcalvin.org/3b3e2f34ad5938d518095b6859c25a1932a39e1a
Cr-Commit-Position: refs/heads/master@(#315043)

Patch Set 1

Total comments: 2

Patch Set 2: bad camelCase, bad
TL; DR:

**CODESEARCH**
https://code.google.com/p/chromium/codesearch

**CRBUG**
https://code.google.com/p/chromium/issues/list

**HALP LIST**
CHROMIUM-DEV@CHROMIUM.ORG

**HALP IRC**
#CHROMIUM

**HOW TO**
http://www.chromium.org/developers/how-tos/get-the-code

**HALPFUL BLOG POST**
http://meowni.ca/posts/chromium-101