Open Source Programming The Chromium Project

Jakub Macháček machaj41@fel.cvut.cz March 19, 2015

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Chromium http://www.chromium.org/Home

- The basis of Google Chrome the most popular web browser
- Includes subprojects like
 - Blink (derived from WebKit)
 - V8 (JavaScript engine)
- Completely open-source (unlike Chrome), lacks of some features:
 - built-in Adobe Flash Player
 - several video & audio formats
 - auto-update system
 - crash report system
- Version 1 released in December 2008, most recent is version 42 (February 2015)

Chromium http://www.chromium.org/Home

- Implemented mainly in C++
- Over 250.000 commits
- Millions of source code lines

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Thousands of contributors

Project organization

Release channels

- Stable
- Beta
- Development
- Relase dates are known in advance
- Communication regarding the development IRC, bug tracker, wishlist
- Public git repository

My contribution

https://code.google.com/p/chromium/issues/detail?id=457697

```
A simple cleanup - scoped_ptr::release is obsolete and should be replaced with scoped_ptr::Pass
```

Class scoped_ptr

A smart pointer

Ownership passing, copying not possible

Eliminates memory leaks and double frees risk

```
scoped_ptr<Foo> my_pointer(new Foo("new"));
my_pointer = do_something(my_pointer.Pass());
scoped_ptr<Foo> do_something(scoped_ptr<Foo> arg) {
  return arg.Pass();
}
```