

# **EXHIBIT 00**

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FACEBOOK, INC.

13  
14 UNITED STATES DISTRICT COURT  
15 NORTHERN DISTRICT OF CALIFORNIA  
16 OAKLAND DIVISION

17 MATTHEW CAMPBELL, MICHAEL  
HURLEY, and DAVID SHADPOUR,

18 Plaintiffs,

19 v.

20 FACEBOOK, INC.,

21 Defendant.  
22

Case No. C 13-05996 PJH (MEJ)

**PUTATIVE CLASS ACTION**

**DECLARATION OF ALEX HIMEL  
ON BEHALF OF DEFENDANT  
FACEBOOK, INC.**

23  
24 **HIGHLY CONFIDENTIAL—ATTORNEYS' EYES ONLY**  
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1 I, Alex Himel, declare as follows:

2 1. I have been employed as a software engineer at Facebook since April 2009, and my  
3 current title is Engineering Director. From 2009-2014, I worked on Facebook’s Developer Platform,  
4 and my work encompassed Facebook’s “Share” button, Facebook’s “Like” button, and the code that  
5 keeps track of the “count” features associated with “Share” and “Like.” I have personal knowledge  
6 of the matters stated herein and, if called as a witness, could and would testify competently thereto. I  
7 provide this Declaration to explain certain facts regarding Facebook’s software code as it relates to  
8 detecting uniform resource locators (“URLs”) in messages sent and received through the Facebook  
9 platform and the relationship of any such URLs to certain social plugins served by Facebook and  
10 visible on third-party websites. In particular, I refer below to the count associated with a Facebook  
11 “Like” social plugin on third-party websites (the “Like” count). I also explain the termination of  
12 related practices in October and December 2012.

13 2. I understand the purported class in this action to consist of Facebook users located  
14 within the United States who have sent or received messages that included URLs in the body of the  
15 message from December 30, 2011 until in or around late 2012, when the practice of including URL  
16 shares in messages in the count on third-party websites ceased (“the Relevant Period”).

17 **Facebook’s Source Code**

18 3. Attached as Exhibits A through G are true and correct copies of documents from an  
19 internal Facebook system that tracks changes to Facebook’s source code and includes related notes  
20 and comments. These documents, known as “Differentials” or “Diffs,” include the date of the  
21 change, a description of the change, and the portions of the code that are changed. The relevant code  
22 before the change is on the left, and the relevant code after the change is on the right. Diffs also  
23 include an identification of the Facebook employee making the change, as well as the persons  
24 commenting on the change.

25 4. To the extent that the above-mentioned documents contain source code, this code has  
26 been redacted for several reasons.

1           5.       First, Facebook’s source code is a closely guarded trade secret of enormous economic  
2 value. Providing it to outside parties increases the risk of further disclosure and therefore poses a risk  
3 of substantial competitive harm. Disclosure of source code outside of Facebook erodes Facebook’s  
4 efforts to protect the code in which Facebook has invested significant resources and which comprises  
5 a significant part of Facebook’s product offering and competitive advantage. Indeed, the code  
6 reflected in these Diffs alone is the product of thousands of engineering hours. Revealing the code  
7 that generates Facebook’s proprietary design and functionalities could cause catastrophic competitive  
8 harm by allowing others to replicate that design and functionality without making the same  
9 investment of time, money, and personnel.

10           6.       Second, disclosing portions of Facebook’s source code would reveal the methods used  
11 to protect Facebook’s users and the integrity of the Facebook platform, and could undermine both of  
12 these efforts. Facebook’s source code includes complex safety and security features that detect spam,  
13 detect and prevent abuse of the system, and protect users from malware, among other things. These  
14 features not only provide for a better and more enjoyable product (another competitive advantage for  
15 Facebook), but also protect Facebook and its users from harm and loss associated with unsolicited  
16 and dangerous content and activities by third parties. The effectiveness of these systems depends in  
17 part on their secrecy. Disclosure of Facebook’s security methods would potentially allow hackers  
18 and abusers to threaten users and the system.

19           7.       In the context of certain types of litigation (such as patent litigation) where there may  
20 be a legitimate need for source code inspection, I am aware that Facebook negotiates specific  
21 protections for source code and implements detailed and time-consuming protocols for handling  
22 source code, as well as extensive limitations on the use of source code materials, disclosure, and  
23 future restrictions on the conduct of individuals exposed to source code materials.

24           8.       In the present case, evidence other than source code is available to demonstrate the  
25 processes and functionality at issue. In particular, the non-code information embodied in “Diffs”—  
26 the documentation of key changes to the source code—effectively demonstrates the processes and  
27 functionality at issue. Additionally, the source code for the processes and functionality at issue is not  
28

1 limited or contained in any discrete way; that is, it is interconnected with other source code at  
2 Facebook. Therefore, if Facebook were required to make source code available in this matter, it  
3 would have little choice but to grant access to a significant amount of source code that has nothing to  
4 do with the allegations in this case.

5 **Share and Like Functionality**

6 9. During the Relevant Period, Facebook offered websites “social plugins,” or units of  
7 embeddable code that allow users to share information using Facebook directly from third-party  
8 websites. A third-party website may have embedded code for the Facebook “Like” button plugin on  
9 its website, enabling Facebook users to directly “Like” the website and to share that action with their  
10 Facebook connections (without having to return to https://www.facebook.com or the Facebook  
11 mobile app to share the content). The “Like” button plugin also may have displayed an anonymous  
12 and aggregate count of all “Likes” for that particular website (the above-referenced “Like” count).  
13 Facebook also offered a “Share” button, which also may have displayed an anonymous and aggregate  
14 count of all “Shares” for that particular website (the “Share” count).

15 10. In September 2009, Facebook enabled functionality that would ultimately allow third-  
16 party website developers to provide a count associated with a “Share” button on their websites.  
17 Attached as Exhibit A is a Diff dated September 30, 2009, reflecting the code that enabled a count of  
18 “Shares” including URLs (1) posted to a user’s profile, (2) commented on, (3) “liked,” by clicking on  
19 a “Like” or “Share” button, or (4) sent as an attachment to a message by clicking on the “Share”  
20 button on a third-party website and choosing “in a private message.” URLs sent in messages through  
21 the Messages product directly from the Facebook website were not included; the count included  
22 messages created by clicking the “Share” button on a third-party website. In particular, [REDACTED]  
23 [REDACTED] demonstrate the generation of a new statistic for the number of times a given URL link  
24 was “shared.” Ex. A at 5. [REDACTED] and [REDACTED] likewise demonstrate that  
25 this new statistic incorporated the number of times a URL was “shared” (which in turn included the  
26 number of times the URL was sent as an attachment to a message after clicking on the “Share”  
27 button, the number of times a user posted the URL to his/her profile, the number of times the URL  
28

1 was “liked,” and the number of times the URL was commented on). Ex. A at 5, 7-8. In addition to  
2 the overall “Share count,” third-party website developers also could view the public API statistics  
3 indicating how many times a particular URL was shared. The public API statistics did not include  
4 statistics indicating (specifically or by inference) how many times a given URL was shared using the  
5 “Share” button and choosing “in a private message.”

6 11. In October 2009, Facebook enabled code for the “Share” button and count. Attached  
7 as Exhibit B is a Diff titled [REDACTED],” which enabled the “Share”  
8 button, including the social plug-in functionality that allowed third-party websites to display the  
9 “Share” button and the statistic indicating how many times a particular URL had been shared. As  
10 reflected in [REDACTED], the  
11 Diff enabled a user interface for a given webpage to fetch the “Share” count for that URL and render  
12 a “Share” button on the webpage to show that “Share” count. As indicated in the Diff, this  
13 functionality was enabled in the source code on October 8, 2009. Ex. B at 3-5.

14 12. At our F8 Developer Conference on April 21, 2010, Facebook announced the public  
15 launch of the “Like” button, which also included a count feature reflecting the number of times a user  
16 had clicked or commented on the “Like” button on that third-party website. The “Like” count  
17 reflected data from the same existing functionality utilized by the “Share” button and count reflected  
18 in Exhibit A. Instead of pulling the total count of shares created by the Diff at Exhibit A, the “Like”  
19 count reflected only the counts for comments and “Likes” generated by clicking a “Like” button.

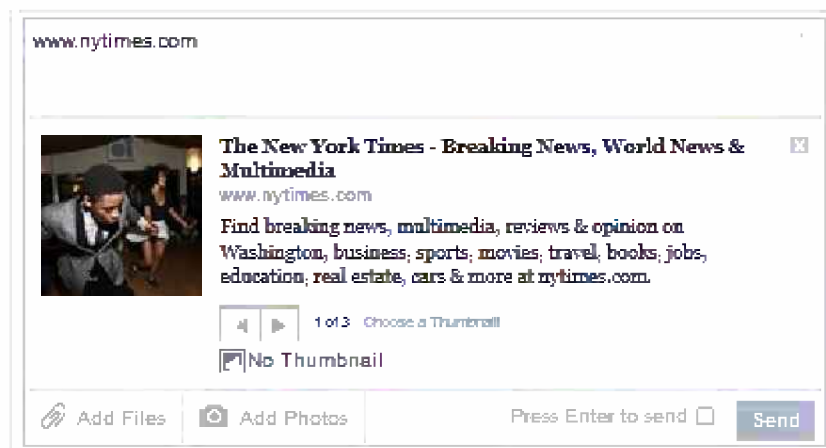
20 13. In May 2010, Facebook changed the “Like” count to include URL shares. Attached as  
21 Exhibit C is a Diff titled [REDACTED]”  
22 reflecting an adjustment made to the code on May 4, 2010 in order to make the “Like” count and the  
23 “Share” count on third-party websites consistent. Following this change, the “Like” count displayed  
24 on third-party websites also included URLs (1) posted to a user’s profile, (2) commented on, (3)  
25 “liked,” or (4) sent as an attachment to a message by clicking on the “Like” button on a third-party  
26 website and choosing “in a private message.” As with the “Share” count, URLs sent in messages  
27 through the Messages product directly from the Facebook website were not included; the count  
28

1 included messages created by clicking the “Like” button on a third-party website. [REDACTED]  
2 [REDACTED] demonstrate that the existing “Like” count statistic for third-party websites was adjusted to be the  
3 sum of the number of times a URL was posted to a user’s profile, commented on, “liked,” or sent as  
4 an attachment to a message. Ex. C at 5.

#### 5 **URL Preview**

6 14. During the Relevant Period, Facebook’s service included a Messages product, which  
7 allowed users to exchange messages that could be viewed in the recipient user’s Messages folder.  
8 Beginning in August 2010, Facebook’s source code included functionality supporting a feature  
9 related to URLs typed into the draft message body in the Messages product on the Facebook website.  
10 Specifically, if a user typed a URL into the text field in the Facebook Messages product, and the user  
11 had JavaScript enabled in her browser, the JavaScript code running in the user’s browser may have  
12 detected the existence of a URL.

13 15. The JavaScript code may then have requested information from a Facebook server in  
14 order to provide a preview of the typed URL (“URL preview”)—including a brief description of the  
15 URL and, if available, a relevant image from the website, as illustrated by the example below:



24 16. If the information was not already available on a Facebook server, Facebook may have  
25 sent a request to scrape the third-party website to obtain the information and send it back to the  
26 Facebook server and to the user’s browser. The bundle of information related to that URL was stored  
27 on the Facebook server as an “object.” Facebook’s software code running in the user’s browser then  
28

1 used the information to create the URL preview as an attachment to a draft message, distinct from the  
2 text in the draft message body.

3 17. If a user proceeded to send a message, the message (including the text of the message,  
4 certain information about the message, e.g., date and time sent, sender, recipient, text formatting) as  
5 well as any attachments (including URL previews), would have been sent to a Facebook server.  
6 After receiving the message on a Facebook server, Facebook software processed the message and any  
7 attachments while they were in electronic storage, including for abuse-detection and security-related  
8 purposes as well as purposes related to user functionality. When a URL preview attachment was  
9 successfully sent to a Facebook server, Facebook recorded that action (a “share object”).<sup>1</sup> When a  
10 user accessed the message from his or her inbox, Facebook code would recreate a preview for the  
11 user from the share object.

12 18. Attached as Exhibit D is the Diff titled [REDACTED]  
13 [REDACTED] dated August 16, 2010, which enabled the URL preview functionality for messages.<sup>2</sup> As  
14 described in the Diff summary: [REDACTED]

15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED] demonstrate the addition of code to detect URLs in the  
18 draft message body, and, if detected, request scraped information related to the URL, and append that  
19 information to the draft message. [REDACTED] demonstrate the addition of code to append  
20 the information to the draft message as an attachment. [REDACTED]

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22  
23 <sup>1</sup> If a user shared a URL through a message but no share object was created (for any of a number of  
24 reasons), the sharing of that URL did not increment any count associated with any social plugin  
25 on the destination website. Similarly, if the destination website associated with the URL did not  
26 have a Facebook button plugin, the sharing of that URL did not increment the count associated  
27 with the social plugin on the website (even if a share object was created). Additionally, in some  
28 cases, even if a share object was created and the destination website associated with the URL had  
a Facebook social plugin, the count on the destination website may not have been incremented  
(for example, if the URL a user included in a message was not exactly the same as the URL the  
developer passed to the plugin).

<sup>2</sup> “Titan” was the internal name for the Facebook Messages product.



1 demonstrate the addition of code to get URL share information in order to generate a preview when a  
2 user views the message from his or her inbox.

3 **Modification of the Like and Share Counts**

4 19. After URL preview functionality was enabled for URLs typed into the Messages  
5 product on Facebook's website in August 2010, URL preview share objects were counted in the  
6 "Like" and "Share" counts visible on third-party websites that embedded those social plugins.

7 20. On or around October 4, 2012, I was made aware of a bug that resulted in an increase  
8 of the "Like" count by 2 for each URL attachment sent with a message. I then made changes to the  
9 code to isolate and ultimately remove shares of URLs in messages from the "Like" and "Share"  
10 counts on third-party websites. Exhibit E is a Diff titled "[REDACTED]" reflecting an  
11 adjustment I made to the code on October 11, 2012 in order to distinguish between URL shares  
12 generated from preview attachments to messages and other URL shares on the Facebook website. As

13 I wrote, [REDACTED]  
14 [REDACTED]  
15 [REDACTED]

16 [REDACTED] Ex. E at 1-2. [REDACTED] show that when a message is sent  
17 with a URL attachment, a log of this event is created to indicate the fact that the URL was attached  
18 and sent. Ex. E at 4. [REDACTED] likewise demonstrate the separation of (i) the metrics for  
19 URLs shared in posts to a user's profile from (ii) the metrics for URLs shared in messages.

20 21. A few days later, I removed URL shares in messages from the "Share count."  
21 Attached as Exhibit F is a Diff titled "[REDACTED]" reflecting  
22 an adjustment I made to the code on October 16, 2012. As is reflected in the notes within the code  
23 itself, prior to October 16, 2012, the code executed the following practice: [REDACTED]

24 [REDACTED] As is also reflected in the notes within the  
25 code itself, as of October 16, 2012 and onward, the code executed the following practice: [REDACTED]

26 [REDACTED] Ex. F at 3-4. For instance, revised  
27 [REDACTED] demonstrate that the calculation of the public statistic for the "Share" count and the

1 corresponding public APIs (discussed above in paragraph 10) for a particular URL was adjusted to  
2 remove a counter that included the number of times the URL was sent as an attachment to a message.  
3 Ex. E at 4. By removing shares associated with attachments to messages from the share\_count, those  
4 URL shares were no longer included in any "Share" counts associated with social plugins on third-  
5 party websites.

6 22. My adjustment to the code in October 2012 was intended to remove all URL shares  
7 from attachments to messages from public social plugin counts. However, I later learned that my  
8 adjustment did not remove all URL attachments in messages, and, in December 2012, Facebook fully  
9 removed URL shares in messages from the "Like" count. Attached as Exhibit G is a Diff titled  
10 "[REDACTED]" reflecting an adjustment made to the code on  
11 December 19, 2012. The summary explains the purpose of the Diff: [REDACTED]  
12 [REDACTED] This change ensured that all  
13 calculations of the "Like" button count, including those used on third-party websites using a "Like"  
14 button social plugin, did not reflect URL shares generated from attachments to messages. Revised  
15 lines 131-132 demonstrate the deletion of the code that previously enabled a display of the "Like"  
16 count that included the number of times a URL was sent as an attachment to a message. Ex. G at 7.  
17 Revised lines 293-299 likewise demonstrate that the new version of the public statistic for the "Like"  
18 count for a particular URL would not include the number of times the URL was shared as an  
19 attachment to a message. Ex. G at 10.

20 I declare under penalty of perjury under the laws of the United States of America that the  
21 foregoing is true and correct and that this declaration was executed on June 1, 2015 in Menlo Park,  
22 California.

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\_\_\_\_\_  
Alex Himel

# **EXHIBIT A**

### [sharepro] rename fqj fields and add api wrapper for launch

Committed All Users

<b>Author</b> rhe		Press ? to show keyboard shortcuts.	⌵ Edit Revision
<b>Reviewers</b>	yariv lshepard mkinsey		⌵ Edit Linked Facebook Tasks
<b>Lint</b>	★ No Linters Available		⌵ Edit Dependencies
<b>Unit</b>	★ No Unit Test Coverage		⌵ Download Raw Diff
<b>Commits</b>	rE:190856: chuckr via release.php: merging 190565 rE:190565: [sharepro] rename fqj fields and add api wrapper for launch		⌵ Ask for Merge for rE:190856: chuckr via release.php: merging 190565
<b>Lines</b>	2,315		⌵ Ask for Merge for rE:190565: [sharepro] rename fqj fields and add api wrapper for launch
<b>Subscribers</b>	doug, dchai		⌵ Flag For Later
			⌵ Award Token
			⌵ Subscribe

#### SUMMARY

As per discussion with public naming  
 Unit tests have also been renamed, and pass

#### TEST PLAN

php unit test: scripts/unitest/tests/platform/fqj/link\_stat.php  
 php unit test: scripts/unitest/tests/platform/fqj/share\_stat.php

rhe updated this revision. Via Legacy - Sep 29 2009, 7:33 PM

updated thrift files. added API wrapper function links.getStats (and unit test) around link\_stat fqj table.

yariv requested changes to this revision. Via Legacy - Sep 30 2009, 9:38 AM

Looks sweet! Very well written code. A question inline.

Please add the new method to the php api client.

#### Inline Comments

16 ⤴ (On Diff #193764) The fqj fields include like\_count and comment\_count, but these cases aren't handled here. Are we not returning like\_count and comment\_count or am I missing something?

80 ⤴ (On Diff #193764) small nitpick: you could store the result of getIid() in a variable to avoid calling it multiple times.

rhe updated this revision Via Legacy - Sep 30 2009, 1:28 PM

1. added comment to make like\_count/message\_count clearer. Basically, these are the same as our internal names, so they're







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1 [Redacted]
2 [Redacted]
3 [Redacted]
4 [Redacted]
5 [Redacted]
6 [Redacted]
7
8 // the metrics data type populates our internal params
  'share_count',
9 // 'post_count', 'like_count', and 'comment_count' These
  are not the
10 // external/official names for the metrics, so we rename
  them here

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11 [REDACTED]
12 [REDACTED]
13 | // we actually want to count messages and post to
    profile in the
14 | // share_count
15 [REDACTED]
16 [REDACTED]
17 | // the internal share_count is externally named
    'message_count'
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 |
25 |
26 |
27 [REDACTED]
28 [REDACTED]
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 59 [REDACTED] [REDACTED]  
 60 [REDACTED]  
 61 [REDACTED]  
 62 /\*\*  
 63 \* Create a new FQLStatement.  
 64 \* @param array \$select an array of  
 FQLExpressions  
 65 \* @param string \$from the table to select from

23 [REDACTED]  
 51 [REDACTED] [REDACTED]  
 52 [REDACTED] [REDACTED]  
 53 [REDACTED] [REDACTED]  
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 62 /\*\*  
 63 \* Create a new FQLStatement.  
 64 \* @param array \$select an array of FQLExpressions  
 65 \* @param string \$from the table to select from



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Show All 30 Lines

[REDACTED]

[REDACTED]

```

1 [REDACTED]
2 [REDACTED]
3 /**
4  * Tests for links.getStats api call.
5  *
6  * To run:
7  * ../../bin/unittest linksGetStats.php
8  *
9  * @owner rhe
10 * @emails rhe@facebook.com platform-
11 tests@lists.facebook.com
12 */
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17
18 // most of this is tested in link_stat fql test, so just
19 // sanity check
20 // that this function works
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

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View Options ▾

```

1  [REDACTED]
2  /**
3   * Tests for the link stat FQL table.
4   *
5   * To run:
6   * ../../bin/unittest link_stat.php
7   *
8   * @owner rhe
9   * @emails,rhe@facebook.com platform-
10  tests@lists.facebook.com
11  */
12  [REDACTED]
13  [REDACTED]
14  [REDACTED]
15  [REDACTED]
16  [REDACTED]
17  [REDACTED]
18  [REDACTED]
19  [REDACTED]
20  [REDACTED]
21  [REDACTED]
22  [REDACTED]
23  [REDACTED]
24  [REDACTED]
25  [REDACTED]
26  [REDACTED]
27  [REDACTED]
28  [REDACTED]
29  [REDACTED]
30  [REDACTED]
31  [REDACTED]
32  [REDACTED]
33  [REDACTED]
34  // most of this logging functionality is tested in
35  // ShareRealTimeStatsTest, this just makes sure we're
36  consistent
37  [REDACTED]
38  [REDACTED]
39  [REDACTED]
40  [REDACTED]
41  [REDACTED]
42  [REDACTED]
43  [REDACTED]
44  [REDACTED]
45  [REDACTED]
46  [REDACTED]
47  [REDACTED]
48  [REDACTED]
49  [REDACTED]
50  [REDACTED]
51  [REDACTED]
52  [REDACTED]
53  [REDACTED]

```

- 54 [REDACTED]
- 55 [REDACTED]
- 56 [REDACTED]
- 57 [REDACTED]
- 58 [REDACTED]
- 59 [REDACTED]
- 60 [REDACTED]
- 61 [REDACTED]
- 62 [REDACTED]
- 63 [REDACTED]
- 64 [REDACTED]
- 65 [REDACTED]
- 66 [REDACTED]
- 67 [REDACTED]
- 68 [REDACTED]
- 69 [REDACTED]
- 70 [REDACTED]
- 71 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### Leap Into Action

Action Comment ▼

Comment

.....

.....

Glowcopterize

[REDACTED]

[REDACTED]

# **EXHIBIT B**

[sharepro] Release candidate for Phase 1

Committed All Users

Author mkinsey

Reviewers julie  
wzhu

Press ? to show keyboard shortcuts.

Lint No Linters Available

Unit No Unit Test Coverage

Commits rE192403: [sharepro] Release candidate for Phase 1  
rE192609: chuckr via release.php: merging 192403

Lines 115

Async Build

Subscribers wzhu, zhen

Edit Revision

Edit Linked Facebook Tasks

Edit Dependencies

Download Raw Diff

Ask for Merge for rE192403: [sharepro] Release candidate for Phase 1

Ask for Merge for rE192609: chuckr via release.php: merging 192403

Flag For Later

Award Token

Subscribe

SUMMARY

Want to get this checked in so JZ can check the CSS. There are a few inconsistencies still in IE6. And so Wei can tweak JS if necessary.

Wei - 13 extra lines.

TEST PLAN

<http://mwk24.net/fb/tester.html>

API covered separately

mkinsey updated this revision.

Via Legacy · Oct 7 2009, 1:49 PM

using assetHost in img src

wzhu added a comment.

Via Legacy · Oct 7 2009, 4:33 PM

Lg. A couple of minor suggestions.





Inline Comments

html/js/connect/FB/SharePro.js

26 (On Diff #197031)

1. Since this function is only used once, let's inline it
2. The code can be simplified as

[Redacted code block]

32 (On Diff #197031)

You can simply this function as

[Redacted code block]

[Redacted code block]

}

mkkinsey updated this revision.

Via Legacy - Oct 8 2009, 12:00 PM

- Smaller per wei
- Don't send t parameter if we have a share\_url specified (so the share login dialogue says the right thing). This adds extra code and may not be strictly necessary?

mkkinsey updated this revision.

Via Legacy - Oct 8 2009, 12:03 PM



wzhu accepted this revision.

Via Legacy - Oct 8 2009, 4:55 PM

Looks good.

mkkinsey closed this revision.

Via Legacy - Oct 8 2009, 6:04 PM

Revision Update History

Diff	ID	Base	Description	Created	Lint	Unit
Base		Base				<input checked="" type="radio"/>
Diff 1	196986			Oct 7 2009, 12:52 PM		<input type="radio"/>
Diff 2	197031			Oct 7 2009, 1:45 PM		<input type="radio"/>
Diff 3	197656			Oct 8 2009, 12:02 PM		<input checked="" type="radio"/>

Whitespace Changes:

Ignore Most

Show Diff

# Table of Contents

	Path	Coverage (All)	Coverage (Touched)
M	[REDACTED]	-	-
M	[REDACTED]	-	-
M	[REDACTED]	-	-

Show All Context

## Diff 197656



View Options ▾

This is an image.



View Options ▾

This is an image.



View Options ▾

Context not available.

```
5  
6 [REDACTED]  
7 // Fields from share_stat table  
  to requests  
8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]
```

```
5  
6 [REDACTED]  
7 // Fields from share_stat table to requests  
8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]
```

Context not available.

```
15 [REDACTED]  
16 [REDACTED]  
17 [REDACTED]  
18 [REDACTED]
```

```
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 [REDACTED]
```

```
19 [REDACTED]
20 }
21 // Render an given button
22 [REDACTED]
23 [REDACTED]
24
25 // Find out what url is
  being shared.
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]
29 }
30
31 [REDACTED]
32 [REDACTED]
33 [REDACTED]
34
35
36
37 [REDACTED]
38 [REDACTED]
39 }
40
41 [REDACTED]
```

```
17 [REDACTED]
18 [REDACTED]
19 // Find out what url is being shared.
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 // Makes the count no more than 4 chars
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]
29 };
30
31 // Update a button post API call
32 [REDACTED]
33 [REDACTED]
34 [REDACTED]
35 [REDACTED]
36 [REDACTED]
37 [REDACTED]
38 [REDACTED]
39 [REDACTED]
40 }
41 )
42 [REDACTED]
43 [REDACTED]
44 [REDACTED]
45 [REDACTED]
46
47 // Render a given button
48 [REDACTED]
49 [REDACTED]
50 [REDACTED]
51 [REDACTED]
52 [REDACTED]
53 [REDACTED]
54
55 // Attach click handler
56 [REDACTED]
57 [REDACTED]
58 [REDACTED]
59 )
60 [REDACTED]
61
62 // Fetch the url if not already requested
```



62

[REDACTED]

63

}

64

}

65

66

[REDACTED]

67

// TODO: Need to have  
real UI markup

68

[REDACTED]

69

|

70

}

71

[REDACTED]

72

}

73

74

// Scan the document and find  
all share buttons to render

75

[REDACTED]

76

var items =  
document.getElementsByName('fb\_sh  
are\_button');

77

[REDACTED]

78

[REDACTED]

79

[REDACTED]

80

|

81

|

82

83

// Method to fetch real-time  
data from

84

[REDACTED]

85

// Check if any data is  
requested

86

[REDACTED]

87

[REDACTED]

88

}

89

90

// This function will be  
invoked when JSONP request  
completes

91

[REDACTED]

92

[REDACTED]

93

[REDACTED]

73

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

74

75

[REDACTED]

[REDACTED]

76

77

};

78

79

// Scan the document and find all share buttons to render

80

[REDACTED]

81

[REDACTED]

82

[REDACTED]

83

[REDACTED]

84

[REDACTED]

85

|

86

|

87

88

// Method to fetch real-time data from

89

[REDACTED]

90

91

[REDACTED]

92

[REDACTED]

93

[REDACTED]

```
94 [REDACTED]
95 [REDACTED]
96 [REDACTED]
97 [REDACTED]
98 [REDACTED]
99 // Note I am passing a dummy
  api_key because that our
  restserver.php
100 // requires one. We should
  remove that in real code
101 [REDACTED]
102 [REDACTED]
103 [REDACTED]
104 [REDACTED]
105 [REDACTED]
106 [REDACTED]
107 [REDACTED]
108 });
  }
109
```

```
94 );
95
96 // Add JSONP request
97 [REDACTED]
98
99 // Construct the API request
100
101 [REDACTED]
102 [REDACTED]
103 [REDACTED]
104 [REDACTED]
105 [REDACTED]
106 [REDACTED]
107 [REDACTED]
108 }
109
```

Context not available.

```
112 // Render default
113 [REDACTED]
114
115 // Note we call API after
  first render because that render
  also
116 // parse the DOM to decide if
  any API call is needed.
117
118
```

```
111 // Render default
112 [REDACTED]
113
114 // Note we call API after first render because that render also
115 // parse the DOM to decide if any API call is needed.
116
117
```

Context not available.

### Leap Into Action

Action

Comment

Comment

[Empty text input field]



Clowncopterize



# **EXHIBIT C**



[like button] make like button count equivalent to sharepro count

Committed on May 4 2010 1:25 PM

Reviewer mkinsey

Parents RE242982: Fix log spew for getConsistentHash on GenericHandlerV2

Branches None

Tags None

Edit Commit

Press ? to show keyboard shortcuts.

Download Raw Diff

Flag For Later

Award Token

DESCRIPTION

[like button] make like button count equivalent to sharepro count

Summary: SOo we can stop being inconsistent

Reviewed by: mkinsey

Test Plan:

http://www.the.devs005.facebook.com/plugins/like.php?ref=http://mashable.com/2010/05/04/zynga-farmville-value/&layout=button\_count&show\_faces=false&width=100&action=like&color=scheme=light verified this is equal to total count

Revert Plan: ok

Changes (1)

History Browse Change Path

RE242983



```

1
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```

```

17
18 /**
19 * Models a Like edge residing (or potentially residing)
20 * between a user and an external link.
21 */
22
23
24
25
26
27
28
29 /**
30 * Construct an ExternalLinkLike instance, which helps manage
31 * the presence of a like edge between a user and an external
32 * page (modeled as a traditional share object).
33 *
34 * @param fbid $from_id the id of the logged in user.
35 * @param fbid $to_id the id of the global share object being

```

```

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```

```

17
18 /**
19 * Models a Like edge residing (or potentially residing)
20 * between a user and an external link.
21 */
22
23
24
25
26
27
28
29 /**
30 * Construct an ExternalLinkLike instance, which helps manage
31 * the presence of a like edge between a user and an external
32 * page (modeled as a traditional share object).
33 *
34 * @param fbid $from_id the id of the logged in user.
35 * @param fbid $to_id the id of the global share object being

```

```
37 * liked.
38 * @param bool $auto_prep true if the constructor should build
39 * up the entire object at construction time, and false
40 * if we expect external code to intentionally prepare
41 * the object in the Preparer::go sense.
42 * @maintainer jcaln
43 */
44
45
46
47
48
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58
59
60 // If the user deletes the share on the external
61 // site, then the oracle was effectively preppead
62 // prematurely. This happens so rarely, that we'll
63 // want this object and the subsidiary oracle
64 // to be preppead simultaneously, but if we notice
65 // an external deletion of this share, then we need
66 // to build the oracle info all over again.
67
68
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73
74
```

```
37 * liked.
38 * @param bool $auto_prep true if the constructor should build
39 * up the entire object at construction time, and false
40 * if we expect external code to intentionally prepare
41 * the object in the Preparer::go sense.
42 * @maintainer jcaln
43 */
44
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59
60 // If the user deleted the share on the external
61 // site, then the oracle was effectively preppead
62 // prematurely. This happens so rarely, that we'll
63 // want this object and the subsidiary oracle
64 // to be preppead simultaneously, but if we notice
65 // an external deletion of this share, then we need
66 // to build the oracle info all over again.
67
68
69
70
71
72
73
74
```

```

75 [REDACTED]
76 [REDACTED]
77 /**
78 * Overrides getSampleConnections that would otherwise be
79 * inherited. This particular class is a full-blown
80 * Preparable,
81 * and the preparation of the LinkLikeOracle overlays the
82 * preparation
83 * of the class itself. $this->sampleConnections can only be
84 * determined
85 * post preparation, and since we technically don't know
86 * whether or
87 * not everything is self-prepped or prepped externally, we
88 * need to
89 * manually manage the construction of sampleConnection.
90 *
91 * @return assoc a dictionary of information about the edges
92 * that
93 * connect the user's friends of the share node in
94 * question.
95 * @maintainer jcahn
96 */
97 [REDACTED]
98 [REDACTED]
99 [REDACTED]
100 [REDACTED]
101 [REDACTED]
102 [REDACTED]
103 [REDACTED]
104 [REDACTED]
105 [REDACTED]
106 [REDACTED]
107 [REDACTED]
108 [REDACTED]
109 /**
110 * Implements the one Preparable method needed to efficiently
111 * rehydrate all of the DB material needed to full construct
112 * this
113 * edge. Most of it is self-explanatory, but note that $pass =
114 * 2
115 * is only needed if we need to confirm that an edge is really
116 * present.

```

```

104 * I'm allowing for the possibility that someone creates a
Like-this-share
105 * edge using an external widget, comes to facebook.com and
removes the
106 * share story, and then goes back to the external widget. The
external
107 * widget should reflect the on-facebook.com story deletion.
108 *
109 * @param int $pass the number of times the prepare method has
110 * been called on this object.
111 * @return true if more rounds are needed, and false otherwise.
112 * @maintainer jcaln
113 */
114
115
116
117
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120
121
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126
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130
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133
134
135

```

```

104 * I'm allowing for the possibility that someone creates a
Like-this-share
105 * edge using an external widget, comes to facebook.com and
removes the
106 * share story, and then goes back to the external widget.
The external
107 * widget should reflect the on-facebook.com story deletion.
108 *
109 * @param int $pass the number of times the prepare method has
110 * been called on this object.
111 * @return true if more rounds are needed, and false
otherwise.
112 * @maintainer jcaln
113 */
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```

```

136 // In the rare case that the user is not connected, but the
137 // association still exists, call remove like to make it
138 //
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142
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208

```
212 [REDACTED]
213 [REDACTED]
214 [REDACTED]
215 // no share seen means this was an unlike of a like
without comment
216 // in this case, decrement the share count here. (if there
is a comment,
217 // we decrement the count at comment time -- see $this->
updateComment(...))
218 [REDACTED]
219 [REDACTED]
220 [REDACTED]
221 [REDACTED]
222 [REDACTED]
223 [REDACTED]
224 [REDACTED]
225 [REDACTED]
226 [REDACTED]
227 [REDACTED]
228 [REDACTED]
229 [REDACTED]
230 [REDACTED]
231 [REDACTED]
232 [REDACTED]
233 [REDACTED]
234 [REDACTED]
235 [REDACTED]
236 [REDACTED]
237 /**
238 * Create share story with user comment and remove like story
239 *
240 * @param string $comment the user comment that should be
inserted
241 * into the share story.
242 * @maintainer jcahn
243 */
244 [REDACTED]
245 [REDACTED]
246 [REDACTED]
247 [REDACTED]
```

```
209 [REDACTED]
210 [REDACTED]
211 [REDACTED]
212 // no share seen means this was an unlike of a like
without comment
213 // in this case, decrement the share count here. (if
there is a comment,
214 // we decrement the count at comment time -- see $this->
updateComment(...))
215 [REDACTED]
216 [REDACTED]
217 [REDACTED]
218 [REDACTED]
219 [REDACTED]
220 [REDACTED]
221 [REDACTED]
222 [REDACTED]
223 [REDACTED]
224 [REDACTED]
225 [REDACTED]
226 [REDACTED]
227 [REDACTED]
228 [REDACTED]
229 [REDACTED]
230 [REDACTED]
231 [REDACTED]
232 [REDACTED]
233 [REDACTED]
234 /**
235 * Create share story with user comment and remove like story.
236 *
237 * @param string $comment the user comment that should be
inserted
238 * into the share story.
239 * @maintainer jcahn
240 */
241 [REDACTED]
242 [REDACTED]
243 [REDACTED]
244 [REDACTED]
```

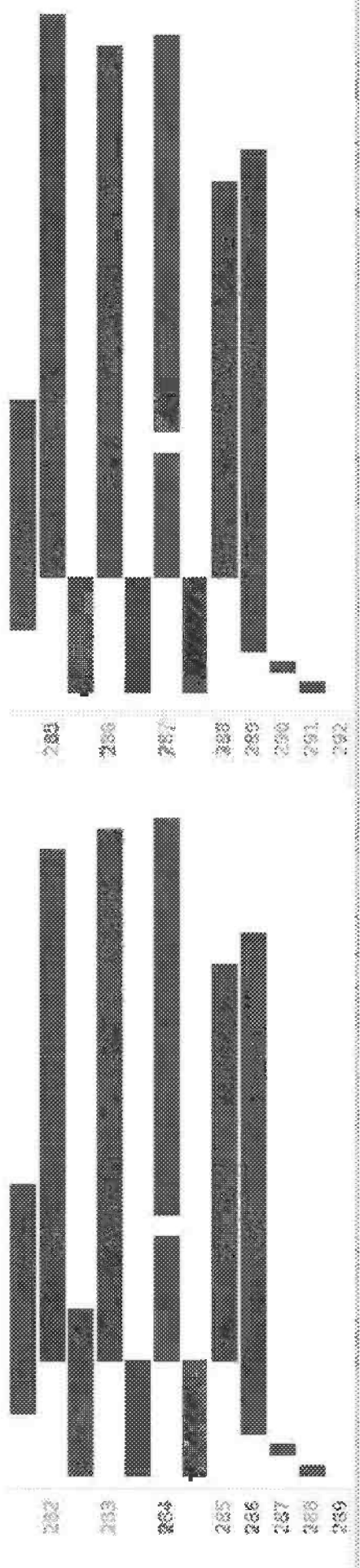


```
248  
249  
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260  
261  
262  
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264  
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267  
268  
269  
270  
271  
272  
273  
274  
275  
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277  
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279  
280  
281  
282  
283  
284
```

```
// if we got here, check to see if the user has also liked  
the link and try  
// to remove the original like story, decrement the share  
count so we  
// don't double count the like + comment.
```

```
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
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266  
267  
268  
269  
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274  
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276  
277  
278  
279  
280  
281
```

```
// if we got here, check to see if the user has also liked  
the link and try  
// to remove the original like story, decrement the share  
count so we  
// don't double count the like + comment.
```



Creative Accounting

Action

Comments

1 2 3 4 5 6 7 8 9 10

Crack the Books

# **EXHIBIT D**

D144832

Create Diff

**Integrate Share-Scraper functionality into Titan**

Committed All Users

**Author** [wbailey](#)**Reviewers** [rdbayer](#)**Lint** ★ Lint Warnings**Unit** ★ No Unit Test Coverage**Commits** [rE278245: Integrate Share-Scraper functionality into Titan](#)  
[rE278610: dmurphy via release.php: merging 278245](#)**Lines** 224**Async Build** None**Tasks** [#269602: Integrate share-scraper](#)**Subscribers** [rdbayer](#), [drew](#), [wbailey](#) and 2 others

Press ? to show keyboard shortcuts.

[Edit Revision](#)[Edit Linked Facebook Tasks](#)[Edit Dependencies](#)[Download Raw Diff](#)[Ask for Merge for rE278245: Integrate Share-Scraper functionality into Titan](#)[Ask for Merge for rE278610: dmurphy via release.php: merging 278245](#)[Flag For Later](#)[Award Token](#)[Subscribe](#)**SUMMARY**

This diff adds a simple share scraper to Titan. Per discussions with the team I did not integrate the existing composer and instead created a standalone scraper control. Modifications were made to the SendMessageTitanController to allow creation of a share object during preparation. This is passed through to the XHP rendering via the fbAttachmentData attribute. The logic for embedding replies was modified so that replies that include an fbAttachment are rendered as whole posts rather than embeds.

TODO:

- need a strategy for dealing with sending these fbAttachments out to external email addresses
- integrate the changes in [D144710](#)

**TEST PLAN**

Tested creating shares to validate they render properly

**REVERT PLAN**

OK

**wbailey** updated this revision.

Via Legacy · Aug 12 2010, 12:08 AM

accidentally left this in

**wbailey** updated this revision.

Via Legacy · Aug 12 2010, 10:30 AM





- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]

**wbailey** updated this revision. Via Legacy · Aug 13 2010, 9:57 AM

forgot to yank this unused method

**wbailey** updated this revision. Via Legacy · Aug 13 2010, 10:07 AM

I can simplify this since the composerId is known. No need to do dom manipulation.

**rdbayer** added a comment. Via Legacy · Aug 13 2010, 1:53 PM

great work cleaning this up. a few more questions, but getting close :)

[REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]

[Redacted]

wbailey added a comment.

Via Legacy · Aug 13 2010, 10:24 PM

[Redacted]

- [Redacted]
- [Redacted]

I'll follow up with uie to verify this, but let me know if I'm missing something you are aware of.

rdbayer added a comment.

Via Legacy · Aug 13 2010, 11:44 PM

good points, i hadn't considered those. maybe run it by uie to see if they can think of a good way, if not what you had will do :)

wbailey added a comment.

Via Legacy · Aug 14 2010, 12:14 AM

Tom Occhino pointed me to [Redacted] I think this will probably work here as well.

FYI he also said...

"technically it's a bug that you can't pass the class name.. we have to tell Marcel to fix.. also, no underscores, hyphens, or capital letters in attribute names"

wbailey updated this revision.

Via Legacy · Aug 15 2010, 10:55 AM

**Thanks for the review. I learned a few things about Preparables in the process.**

- [Redacted]
- [Redacted]

[Redacted] **D145219** [Redacted]

- [Redacted]
- [Redacted]

[Redacted]





— wbailey closed this revision.

Via Legacy · Aug 16 2010, 9:40 AM

### Revision Update History

Diff	ID	Base	Description	Created	Lint	Unit		
<b>Base</b>			Base					
<b>Diff 1</b>	<a href="#">374980</a>	fd87c2f		Aug 12 2010, 12:05 AM	★	★		
<b>Diff 2</b>	<a href="#">374981</a>	6e2a416	accidentally left this in	Aug 12 2010, 12:08 AM	★	★		
<b>Diff 3</b>	<a href="#">375135</a>	b4da471	the _setVisibility method is unnecessary	Aug 12 2010, 10:29 AM	★	★		
<b>Diff 4</b>	<a href="#">375176</a>	b849eaa	- reverting a couple of changes I accidentally included - making the scraper handle retyping the same link properly	Aug 12 2010, 11:03 AM	★	★		
<b>Diff 5</b>	<a href="#">375497</a>	83d3b5f	merged with diff from ross	Aug 12 2010, 2:32 PM	★	★		
<b>Diff 6</b>	<a href="#">375526</a>	0ce95af	these lines shouldn't have been modified	Aug 12 2010, 2:47 PM	★	★		
<b>Diff 7</b>	<a href="#">375532</a>	aca5d94	typo	Aug 12 2010, 2:49 PM	★	★		
<b>Diff 8</b>	<a href="#">375537</a>	05dac59	sorry...left this in	Aug 12 2010, 2:51 PM	★	★		
<b>Diff 9</b>	<a href="#">376265</a>	2fca9ee	Ross, thanks for the great review. See updates: ----- replaced hard-coded pa...	Aug 13 2010, 9:44 AM	★	★		
<b>Diff 10</b>	<a href="#">376274</a>	65079fd	forgot to yank this unused method	Aug 13 2010, 9:56 AM	★	★		
<b>Diff 11</b>	<a href="#">376284</a>	d9c225e	I can simplify this since the composerId is known. No need to do dom manipulation.	Aug 13 2010, 10:07 AM	★	★		
<b>Diff 12</b>	<a href="#">377426</a>	165bc82	Thanks for the review. I learned a few things about Preparables in the process. ----- * remo...	Aug 15 2010, 10:33 AM	★	★		
<b>Diff 13</b>	<a href="#">377851</a>	c2ac5be	updates...thanks!	Aug 16 2010, 9:03 AM	★	★		
<b>Diff 14</b>	<a href="#">377860</a>	d8f982d	updating to use merged in onload register for referencing the composer controller	Aug 16 2010, 9:27 AM	★	★		
<b>Diff 15</b>	<a href="#">377863</a>	0ac42ca	switching this handler back to use the js constructor style referencing and accidentally included a merge artifact	Aug 16 2010, 9:34 AM	★	★		

Whitespace Changes:

[Show Diff](#)

### Table of Contents

Path	Coverage (All)	Coverage (Touched)

```

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

```

```

[REDACTED]
[REDACTED]

```

Show All Context

### Diff 377863

```

[REDACTED]

```

View Options ▾

This file contains generated code, which does not normally need to be reviewed. [Show File Contents](#)

```

[REDACTED]

```

View Options ▾

Show First 20 Lines • Show All 78 Lines • ▾ Show 20 Lines

```

79 [REDACTED]
80 [REDACTED]
81 [REDACTED]
82 [REDACTED]
83 [REDACTED]
84 [REDACTED]
85 [REDACTED]
86 [REDACTED]
87 [REDACTED]
88 [REDACTED]
89 [REDACTED]
90 [REDACTED]
91 [REDACTED]
92 [REDACTED]
93 [REDACTED]
94 [REDACTED]

```

```

72 [REDACTED]
79 [REDACTED]
80 [REDACTED]
81 [REDACTED]
82 [REDACTED]
83 [REDACTED]
84 [REDACTED]
85 [REDACTED]
86 [REDACTED]
87 [REDACTED]
88 [REDACTED]
89 [REDACTED]
90 [REDACTED]
91 [REDACTED]
92 [REDACTED]
93 [REDACTED]
94 [REDACTED]
95 [REDACTED]
96 [REDACTED]

```

Show All 12 Lines

```

107 [REDACTED]
108 [REDACTED]
109 [REDACTED]
110 [REDACTED]
111 [REDACTED]
112 [REDACTED]
113 [REDACTED]
114 [REDACTED]
115 [REDACTED]

```

```

106 [REDACTED]
109 [REDACTED]
110 [REDACTED]
111 [REDACTED]
112 [REDACTED]
113 [REDACTED]
114 [REDACTED]
115 [REDACTED]
116 [REDACTED]
117 [REDACTED]

```

46 [REDACTED]  
 47 [REDACTED]  
 48 [REDACTED]  
 49 [REDACTED]  
 50 [REDACTED]  
 51 [REDACTED]  
 52 [REDACTED]

[REDACTED]

View Options ▾

```

1 /**
2  * @provides messaging-composer-js
3  * @requires arbiter async css dom
4  */
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

```

```

1 /**
2  * @provides messaging-composer-js
3  * @requires arbiter async css dom url-scraper
4  */
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

```

```

29 [REDACTED]
30 [REDACTED]
31 [REDACTED]
32 [REDACTED]
33 [REDACTED]
34 [REDACTED]
35 [REDACTED]
36 [REDACTED]
37 [REDACTED]
38 [REDACTED]
39 [REDACTED]
40 [REDACTED]
41 [REDACTED]
42 [REDACTED]
43 [REDACTED]
44 [REDACTED]

```

```

29 [REDACTED]
30 [REDACTED]
31 [REDACTED]
32 [REDACTED]
33 [REDACTED]
34 [REDACTED]
35 [REDACTED]
36 [REDACTED]
37 [REDACTED]
38 [REDACTED]
39 [REDACTED]
40 [REDACTED]
41 [REDACTED]
42 [REDACTED]
43 [REDACTED]
44 [REDACTED]

```

```

39 [REDACTED]
40 [REDACTED]
41 [REDACTED]
42 [REDACTED]
43 [REDACTED]
44 [REDACTED]
45 [REDACTED]
46 [REDACTED]
47 [REDACTED]
48 [REDACTED]
49 [REDACTED]
50 [REDACTED]
51 /**
52  * Gets called when Compose dialog is closed (but
not cancelled)
53  * or a reply is sent.
54  */
55 [REDACTED]

```

Show All 33 Lines

```

89 [REDACTED]
90 [REDACTED]
91 [REDACTED]
92 [REDACTED]
93 [REDACTED]
94 [REDACTED]
95 [REDACTED]
96 [REDACTED]
97 [REDACTED]
98 [REDACTED]
99 [REDACTED]
100 [REDACTED]
101 [REDACTED]
102 [REDACTED] // don't close the dialog or
follow the href
103 [REDACTED]
104 [REDACTED]

```

```

45 [REDACTED]
46 [REDACTED]
47 [REDACTED]
48 [REDACTED]
49 [REDACTED]
50 [REDACTED]
51 [REDACTED]
52 [REDACTED]
53 [REDACTED]
54 [REDACTED]
55 [REDACTED]
56 [REDACTED]
57 [REDACTED]
58 [REDACTED]
59 /**
60  * Gets called when Compose dialog is closed (but
not cancelled)
61  * or a reply is sent.
62  */
63 [REDACTED]

```

```

96 [REDACTED]
97 [REDACTED]
98 [REDACTED]
99 [REDACTED]
100 [REDACTED]
101 [REDACTED]
102 [REDACTED]
103 [REDACTED]
104 [REDACTED]
105 [REDACTED]
106 [REDACTED]
107 [REDACTED]
108 [REDACTED]
109 [REDACTED]
110 [REDACTED]
111 [REDACTED]
112 [REDACTED] // don't close the dialog or
follow the href
113 [REDACTED]
114 [REDACTED]
115 /**
116  * serialize the fb attachments from the stage
*/
117 [REDACTED]
118 [REDACTED]
119 [REDACTED]
120 [REDACTED]
121 [REDACTED]
122 /**
123  * begin detecting urls
*/
124 [REDACTED]
125 [REDACTED]
126 [REDACTED]
127 [REDACTED]
128 [REDACTED]
129 [REDACTED]
130 [REDACTED]
131 [REDACTED]
132 [REDACTED]

```

```

105 [REDACTED]
106 // Hack for now, the tokenizer/typeahead doesn't
really support locking
107 // no good way to lock the token pool right now
108 // TODO(wiley) 6/15/2010 When we get actual
locking functionality for
109 // typeahead/tokenizer, use that instead
110 [REDACTED]
111 [REDACTED]
112 [REDACTED]
113 [REDACTED]
114 [REDACTED]
115 [REDACTED]
116 [REDACTED]
117 [REDACTED]
118 [REDACTED]
119 [REDACTED]
120 [REDACTED]
121 [REDACTED]
122 [REDACTED]
123 [REDACTED]
124 [REDACTED]
125 [REDACTED]

```

```

133
134 /**
135  * fired when a url is detected
136  */
137 [REDACTED]
138 [REDACTED]
139 [REDACTED]
140 [REDACTED]
141 [REDACTED]
142 [REDACTED]
143 [REDACTED]
144 [REDACTED]
145 [REDACTED]
146 [REDACTED]
147 [REDACTED]
148 [REDACTED]
149 [REDACTED]
150
151 /**
152  * (fired when the share scraper ajax call complete)
153  */
154 [REDACTED]
155 [REDACTED]
156 [REDACTED]
157 [REDACTED]
158
159 /**
160  * cleanup share scraper stage
161  */
162 [REDACTED]
163 [REDACTED]
164 [REDACTED]
165 [REDACTED]
166 [REDACTED]
167
168 [REDACTED]
169 // Hack for now, the tokenizer/typeahead doesn't
really support locking
170 // no good way to lock the token pool right now
171 // TODO(wiley) 6/15/2010 When we get actual
locking functionality for
172 // typeahead/tokenizer, use that instead
173 [REDACTED]
174 [REDACTED]
175 [REDACTED]
176 [REDACTED]
177 [REDACTED]
178 [REDACTED]
179 [REDACTED]
180 [REDACTED]
181 [REDACTED]
182 [REDACTED]
183 [REDACTED]
184 [REDACTED]
185 [REDACTED]
186 [REDACTED]
187 [REDACTED]
188 [REDACTED]

```

126 [REDACTED]  
 127 [REDACTED]  
 128 [REDACTED]  
 129 [REDACTED]  
 130 [REDACTED]  
 131 [REDACTED]  
 132 [REDACTED]  
 133 [REDACTED]

189 [REDACTED]  
 190 [REDACTED]  
 191 [REDACTED]  
 192 [REDACTED]  
 193 [REDACTED]  
 194 [REDACTED]  
 195 [REDACTED]  
 196 [REDACTED]  
 197 [REDACTED]

▲ Show 20 Lines • Show All 57 Lines • Show Last 20 Lines

[REDACTED]

View Options ▼

Show First 20 Lines • Show All 829 Lines • ▼ Show 20 Lines

824

830 [REDACTED]  
 831 [REDACTED]  
 832 [REDACTED]  
 833 [REDACTED]  
 834 [REDACTED]  
 835 [REDACTED]  
 836 // else The server knew this shouldn't be embedded  
 837 [REDACTED]  
 838 [REDACTED]  
 839 [REDACTED]  
 840 [REDACTED]  
 841 // Emote  
 842 [REDACTED]  
 843 [REDACTED]  
 844 // Add the whole html portion of the message to the messages list  
 845 [REDACTED]  
 846 [REDACTED]

830 [REDACTED]  
 831 [REDACTED]  
 832 [REDACTED]  
 833 [REDACTED]  
 834 [REDACTED]  
 835 [REDACTED]  
 836 // else The server knew this shouldn't be embedded  
 837 [REDACTED]  
 838 [REDACTED]  
 839 [REDACTED]  
 840 [REDACTED]  
 841 // Emote  
 842 [REDACTED]  
 843 [REDACTED]  
 844 // Add the whole html portion of the message to the messages list  
 845 [REDACTED]  
 846 [REDACTED]

▲ Show 20 Lines • Show All 376 Lines • Show Last 20 Lines

[REDACTED]

View Options ▼

Show First 20 Lines • Show All 328 Lines • ▼ Show 20 Lines

325

329 [REDACTED]  
 330 [REDACTED]  
 331 [REDACTED]  
 332 [REDACTED]  
 333 [REDACTED]  
 334 [REDACTED]  
 335 [REDACTED]  
 336 [REDACTED]  
 337 [REDACTED]  
 338 [REDACTED]

329 [REDACTED]  
 330 [REDACTED]  
 331 [REDACTED]  
 332 [REDACTED]  
 333 [REDACTED]  
 334 [REDACTED]  
 335 [REDACTED]  
 336 [REDACTED]  
 337 [REDACTED]  
 338 [REDACTED]  
 339 [REDACTED]

```

339 [REDACTED]
340 [REDACTED]
341 [REDACTED]
342 [REDACTED]
343 [REDACTED]
344 [REDACTED]
345 [REDACTED]

```

▲ Show 20 Lines • Show All 46 Lines • ▼ Show 20 Lines

```

392 [REDACTED]
393 [REDACTED]
394 [REDACTED]
395 [REDACTED]
396 [REDACTED]
397 [REDACTED]
398 [REDACTED]
399 [REDACTED]

```

```

400 [REDACTED]
401 [REDACTED]
402 // Separate the new message case from the send
message reply case based
403 // on 0 or 1 thread ids.
404 [REDACTED]
405 [REDACTED]

```

```

406 [REDACTED]
407 [REDACTED]
408 // New thread as there is nothing to reply to
409 [REDACTED]

```

```

340 [REDACTED]
341 [REDACTED]
342 [REDACTED]
343 [REDACTED]
344 [REDACTED]
345 [REDACTED]
346 [REDACTED]

```

390 [REDACTED]

```

393 [REDACTED]
394 [REDACTED]
395 [REDACTED]
396 [REDACTED]
397 [REDACTED]
398 [REDACTED]
399 [REDACTED]
400 [REDACTED]

```

```

401 [REDACTED]
402 [REDACTED]
403 [REDACTED]
404 [REDACTED]

```

```

405 [REDACTED]
406 // Separate the new message case from the send
message reply case based
407 // on 0 or 1 thread ids.
408 [REDACTED]

```

```

409 [REDACTED]
410 // create fb attachment
411 // TODO: we'll need to handle multiple types of
app_ids here
412 // this is just the generic link sharing
case. Photos and
413 // videos should be passed in a similar way
but the sharings
414 // are created differently see the Gigaboxx
Composer endpoint for
415 // details. wbailey

```

```

416 [REDACTED]
417 [REDACTED]
418 [REDACTED]

```

```

419 [REDACTED]
420 [REDACTED]
421 [REDACTED]

```

```

422 [REDACTED]
423 [REDACTED]
424 [REDACTED]
425 [REDACTED]
426 [REDACTED]

```

```

427 [REDACTED]
428 [REDACTED]
429 // New thread as there is nothing to reply to
430 [REDACTED]

```



```

410 [REDACTED]
411 [REDACTED]
412 [REDACTED]
413 [REDACTED]
414 [REDACTED]
415 [REDACTED]
416 [REDACTED]
417 [REDACTED]
418 [REDACTED]
419 [REDACTED]
420 [REDACTED]
421 [REDACTED]
422 [REDACTED]
423 [REDACTED]
424 [REDACTED]
425 [REDACTED]
426 [REDACTED]
427 [REDACTED]
428 [REDACTED]

```

Show All 10 Lines

```

439 // TODO: Is there a way Sentry supports e-mail
addresses too?
440 [REDACTED]
441 [REDACTED]
442 [REDACTED]
443 [REDACTED]
444 [REDACTED]
445 [REDACTED]
446 [REDACTED]
447 [REDACTED]
448 [REDACTED]
449 [REDACTED]
450 [REDACTED]

```

```

431 [REDACTED]
432 [REDACTED]
433 [REDACTED]
434 [REDACTED]
435 [REDACTED]
436 [REDACTED]
437 [REDACTED]
438 [REDACTED]
439 [REDACTED]
440 [REDACTED]
441 [REDACTED]
442 [REDACTED]
443 [REDACTED]
444 [REDACTED]
445 [REDACTED]
446 [REDACTED]
447 [REDACTED]
448 [REDACTED]
449 [REDACTED]
450 [REDACTED]
451 [REDACTED]
459 [REDACTED]
462 // TODO: Is there a way Sentry supports e-mail
addresses too?
463 [REDACTED]
464 [REDACTED]
465 [REDACTED]
466 [REDACTED]
467 [REDACTED]
468 [REDACTED]
469 [REDACTED]
470 [REDACTED]
471 // if there is an fb attachment fetch it in
parallel as there
472 // are no dependencies on this data until the
render phase
473 [REDACTED]
474 [REDACTED]
475 [REDACTED]
476 [REDACTED]
477 [REDACTED]
478 [REDACTED]
479 [REDACTED]
480 [REDACTED]
481 [REDACTED]
482 [REDACTED]
483 [REDACTED]

```



654



700



Show 20 Lines • Show All 99 Lines • Show Last 20 Lines



View Options ▾

Show All 12 Lines

13 [Redacted]

14 [Redacted]

15 [Redacted]

16 [Redacted]

17 [Redacted]

18 [Redacted]

19 [Redacted]

20 [Redacted]

21 [Redacted]

22 [Redacted]

23 [Redacted]

24 [Redacted]

25 [Redacted]

26 [Redacted]

27 [Redacted]

28 [Redacted]

29 [Redacted]

30 [Redacted]

31 [Redacted]

32 [Redacted]

33

13 [Redacted]

14 [Redacted]

15 [Redacted]

16 [Redacted]

17 [Redacted]

18 [Redacted]

19 [Redacted]

20 [Redacted]

21 [Redacted]

22 [Redacted]

23 [Redacted]

24 [Redacted]

25 [Redacted]

26 [Redacted]

27 [Redacted]

28 [Redacted]

29 [Redacted]

30 [Redacted]

31 [Redacted]

32 [Redacted]

33 [Redacted]

34

### Leap Into Action

- These changes have lint problems.

Action

Comment 




PREVIEW

# **EXHIBIT E**

### Url Tracking Adjustments

Committed All Users

Author ahimel

Reviewers rothbart  
the

Lint \* Lint Warnings

Excuse not new to this diff

fileshare/create/create\_impl.php

Warning (check/module)

Show Full Lint Results (1 Detail)

Unit \* Unit Tests OK

Skip ShareFeedbackTargetTestCase

Skip RecommendationsBarQueryTestCase

Skip ShareUrlTrackingTests

Show Full Unit Results (27 Passed, 4 Details)

Perflab \* Run Perflab Experiment

Commits rE645493: Url Tracking Adjustments

rE645816: bhail merging 645493 | ahimel | Url Tracking Adjustments

Branch like\_counts

Lines 29

Arcanist Project facebook-www

Repository rE (Engineering)

Complete Test Run 7685/10/38/3/4 (pass/skip/fail/fatal/timeout) with 0 failure not in trunk

Subscribers tkamenick, platform-cliffs@lists

### SUMMARY

The purpose of this change is to be able to accurately

Press ? to show keyboard shortcuts.

Edit Revision

Edit Linked Facebook

Tasks

Edit Dependencies

Download Raw Diff

Ask for Merge for

rE645493: Url Tracking Adjustments

Ask for Merge for

rE645816: bhail merging 645493 | ahimel | Url

Tracking Adjustments

Snowfort

Perflab

FBI Strings

Flag For Later

Award Token

Subscribe

- determine what % of the like counts are attributable to private messages. If the % is low enough, we will cut this tracking due to privacy concerns. This diff does two things:
- 1/ Separate wall posts and private messages in the accounting (post\_count, share\_count).
- 2/ Add hive logging for message sends to use for double-checking the data

**TEST PLAN**

Sent a bunch of messages and did a lot of wall posts.

rothbart accepted this revision.

Via Legacy · Oct 11 2012, 4:00 AM

LGTM

Inline Comments

fib/messaging/controllers/action/send/SendMessageControllerFactory.php

33 ✓ (On Diff #1505646) This is epic.

ahimel closed this revision.

Via Legacy · Oct 11 2012, 7:45 AM

Closed by commit rE645493 (authored by @ahimel ).

**Revision Update History**

Diff	ID	Base	Description	Created	Lint	Unit
Base			Base			
Diff 1	1505646	645379		Oct 11 2012, 12:49 AM	★	★
Diff 2	1505798	845492	Commit rE645493	Oct 11 2012, 7:38 AM	★	★

Show Diff

Ignore Most

Whitespace Changes:

### Local Commits

Commit	Tree	Parents	Author	Summary	Date
ac5fcaaa815c	9c583538f5f7	c954ac1fc382	ahime1	Url Tracking Adjustments (Show More...)	Oct 11 2012, 12:42 AM

### Table of Contents

Path	Coverage (All)	Coverage (Touched)
M	[Redacted]	[Redacted]
M	[Redacted]	[Redacted]
M	[Redacted]	[Redacted]
M	[Redacted]	[Redacted]
M	[Redacted]	[Redacted]

Show All Context

### Diff 1505798

[Redacted]	[Redacted]
16	[Redacted]
25	[Redacted]
26	[Redacted]
27	[Redacted]
28	[Redacted]
29	[Redacted]
30	[Redacted]



31 [REDACTED]

32 [REDACTED]

31 [REDACTED]

32 [REDACTED]

33 [REDACTED]

34 [REDACTED]

35 [REDACTED]

36 [REDACTED]

37 [REDACTED]

38 [REDACTED]

39 [REDACTED]

40 [REDACTED]

41 [REDACTED]

42 [REDACTED]

43 [REDACTED]

44 [REDACTED]

45 [REDACTED]

46 [REDACTED]

33 // Separate the new message case from the send message  
reply case based

34 // on 0 or 1 thread ids.

35 [REDACTED]

36 [REDACTED]

37 [REDACTED]

38 [REDACTED]

39 [REDACTED]

40 // New thread as there is nothing to reply to

47 // Separate the new message case from the send message  
reply case based

48 // on 0 or 1 thread ids.

49 [REDACTED]

50 [REDACTED]

51 [REDACTED]

52 [REDACTED]

53 // New thread as there is nothing to reply to

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

39 [REDACTED]



121 } [REDACTED]  
 122 } [REDACTED]  
 123 } [REDACTED]  
 124 } [REDACTED]  
 125 } [REDACTED]  
 126 } [REDACTED]  
 127 } [REDACTED]  
 128 } [REDACTED]  
 129 } [REDACTED]  
 130 } // Add the user as a contributor if it was posted  
 131 } [REDACTED]  
 132 } [REDACTED]

124 } [REDACTED]  
 125 } [REDACTED]  
 126 } [REDACTED]  
 127 } [REDACTED]  
 128 } [REDACTED]  
 129 } [REDACTED]  
 130 } [REDACTED]  
 131 } [REDACTED]  
 132 } [REDACTED]  
 133 } // Add the user as a contributor if it was posted  
 134 } [REDACTED]  
 135 } [REDACTED]

[REDACTED]

[REDACTED]



352 } [REDACTED]  
 353 } [REDACTED]  
 354 } [REDACTED]  
 355 } [REDACTED]  
 356 } [REDACTED]  
 357 } [REDACTED]  
 358 } [REDACTED]  
 359 } [REDACTED]  
 360 } [REDACTED]  
 361 } [REDACTED]

319 } [REDACTED]  
 352 } [REDACTED]  
 353 } [REDACTED]  
 354 } [REDACTED]  
 355 } [REDACTED]  
 356 } [REDACTED]  
 357 } [REDACTED]  
 358 } [REDACTED]  
 359 } [REDACTED]  
 360 } [REDACTED]  
 361 } [REDACTED]  
 362 } [REDACTED]  
 363 } [REDACTED]  
 364 } [REDACTED]

362	[Redacted]
363	[Redacted]
364	[Redacted]
365	[Redacted]
366	[Redacted]
367	[Redacted]
368	[Redacted]
369	[Redacted]
365	[Redacted]
366	[Redacted]
367	[Redacted]
368	[Redacted]
369	[Redacted]
370	[Redacted]
371	[Redacted]
372	[Redacted]

▲ Show 20 Lines • Show All 108 Lines • Show Last 20 Lines

### Leap Into Action

- These changes have lint problems.

Action  ▼

Comment

prajagopalan added a comment.

PREVIEW

# **EXHIBIT F**

### Remove Private Messages from Like Button Count

Committed All Users

Author ahime1  
Reviewers rne  
rothbart

Lint \* Lint OK

Unit \* No Unit Test Coverage

Perflab \* Run Perflab Experiment

Commits rE649796: Remove Private Messages from Like Button Count  
rE650435: bhail merging 649796 | ahime1 | Remove Private Messages from Like Button Count

Branch like\_counts

Lines 12

Arcanist Project facebook-www

Repository rE (Engineering)

Complete Test Run 7646/39/87/14/0 (pass/skip/fail/fatal/timeout) with 0 failure not in trunk

Subscribers harshdeep, bgoiub, platform-diffs@lists

Edit Revision

Edit Linked Facebook

Tasks

Edit Dependencies

Download Raw Diff

Ask for Merge for

rE649796: Remove Private Messages from Like Button Count

Ask for Merge for

rE650435: bhail merging 649796 | ahime1 | Remove Private Messages from Like Button Count

Snowfort

Perflab

FBI Strings

Flag For Later

Award Token

Subscribe

Press ? to show keyboard shortcuts.

#### SUMMARY

These were contributing 0.8-4% of the count depending on domain. Given the low contribution and high degree of scrutiny from privacy advocates, let's just remove it.

### TEST PLAN

Looked at results for given url - total count and share count both go down by the number of private messages sent.  
[https://api.ahimel.dev/3317.facebook.com/restserver.php?method=links.getStats&urls=http://www.huffingtonpost.com/2012/10/13/timothy-kurek-straight-christian-pretends-gay\\_n\\_1963657.html](https://api.ahimel.dev/3317.facebook.com/restserver.php?method=links.getStats&urls=http://www.huffingtonpost.com/2012/10/13/timothy-kurek-straight-christian-pretends-gay_n_1963657.html)

the accepted this revision.

Via Legacy · Oct 16 2012, 2:27 PM

ahimel updated this revision.  
 updating comments

Via Legacy · Oct 15 2012, 2:28 PM

ahimel closed this revision.  
 Closed by commit rE649796 (authored by @ahimel ).

Via Legacy · Oct 16 2012, 8:21 PM

### Revision Update History

Diff	ID	Base	Description	Created	Lint	Unit
Base			Base			<input checked="" type="radio"/>
Diff 1	1519837	649378		Oct 16 2012, 2:26 PM	*	<input checked="" type="radio"/> *
Diff 2	1519845	649378	updating comments	Oct 16 2012, 2:28 PM	*	<input checked="" type="radio"/> *
Diff 3	1521770	649795	Commit rE649796	Oct 16 2012, 8:15 PM	*	<input checked="" type="radio"/> *

Whitespace Changes:  Ignore Most  Show Diff

### Local Commits

<https://phabricator.fb.com/D602346>





```

16 | ██████████
17 | // we actually want to count messages and post to
    | profile in the
18 | // share_count
    | private
19 | ██████████
    | // messages
20 | ██████████
21 | // the internal share_count is externally named
    | 'message_count'
22 | ██████████
23 | ██████████
24 | ██████████
25 | ██████████
26 | ██████████
27 | ██████████
28 | // this returns null if it is 0, to indicate no fbid
    | exists
29 | ██████████
30 | ██████████
31 | // TODO(jtung): make this work for non-integer fields
32 | ██████████
33 | ██████████
34 | ██████████

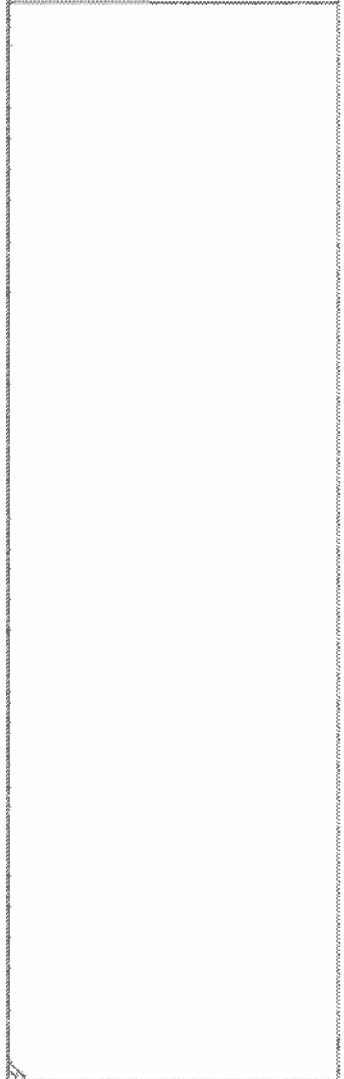
```

Show All 34 Lines

### Leap Into Action

Action

Comment



Comproprize

jeanabismar added a comment.

PREVIEW

# **EXHIBIT G**

### Remove share\_count from like button counts

Project/Package	Aux share	Press ? to show keyboard shortcuts.	Edit Commit
Pages	Typeahead		Download Raw Diff
	entity-external-node		Flag For Later
			Award Token

Committed rthbarf Dec 19 2012, 11:49 AM

Reviewer ahimel

Differential Revision D662208: Remove share\_count from like button counts

Parents FE698930: Add adhoc job to dump MARC data and create pages for them

Branches None

Tags None

### DESCRIPTION

Remove share\_count from like button counts

Summary: Don't include share\_count in like button counts, following a similar logic to <https://phabricator.fb.com/D602348>.

Test Plan: Rendered like button for a URL, verified count didn't go up when URL is shared via a private message but it does go up when URL is shared publicly.

Reviewers: ahimel, rth, jeffreyspehar, stoyansiefanov

Reviewed By: ahimel

CC: platform-diffs@lists, search-diffs@lists, hubs-diffs@lists, vibes-diffs@lists, arudolph

Differential Revision: <https://phabricator.fb.com/D662208>

Task ID: 1969650

### Changes (8)

1125 [REDACTED] 1125 [REDACTED]  
 1126 [REDACTED] 1126 [REDACTED]  
 1127 [REDACTED] 1127 [REDACTED]

Show All 28 Lines

[REDACTED]

Show First 20 Lines • Show All 58 Lines • ▼ Show 20 Lines

59 [REDACTED] 59 [REDACTED]  
 60 // If no share information exists for this page, it is not worth indexing [REDACTED] 60 [REDACTED]  
 61 [REDACTED] 61 [REDACTED]  
 62 [REDACTED] 62 [REDACTED]  
 63 [REDACTED] 63 [REDACTED]  
 64 [REDACTED] 64 [REDACTED]  
 65 [REDACTED] 65 [REDACTED]  
 66 [REDACTED] 66 [REDACTED]  
 67 [REDACTED] 67 [REDACTED]  
 68 [REDACTED] 68 [REDACTED]  
 69 [REDACTED] 69 [REDACTED]  
 70 [REDACTED] 70 [REDACTED]  
 71 [REDACTED] 71 [REDACTED]



[REDACTED]

8 [REDACTED]  
 144 [REDACTED] 144 [REDACTED]  
 145 [REDACTED] 145 [REDACTED]  
 146 [REDACTED] 146 [REDACTED]  
 147 // for facebook urls, external share object counts are not [REDACTED] 147 [REDACTED]

```

148 // accurate (shared with different codepath), thus we
always go
149 // with the sampleconnections likes without the normal
share
150 // tracking
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165

```

```

148 // accurate (shared with different codepath), thus we
always go
149 // with the sampleconnections likes without the normal
share
150 // tracking
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168

```

**▲ Show 20 Lines • Show All 282 Lines • Show Last 20 Lines**

```

35
59
60
61
62
63

```

// save our fan connections so we can get this number separately

```

35
59
60
61
62
63

```

// save our fan connections so we can get this number separately

```

64 [REDACTED]
65 // add to numConnections our share counts to make the
   numbers
66 // equivalent
67 [REDACTED]
68 [REDACTED]
69 [REDACTED]
70 [REDACTED]
71 [REDACTED]
72 // if URL like counts are whacked, then correct them..
73 // this shouldn't happen very often at all, so we
   should
74 // ignore any expense as something that isn't worth
75 // worrying about
76 [REDACTED]
77 [REDACTED]
78 [REDACTED]
79 [REDACTED]
80 [REDACTED]
81 [REDACTED]
82 [REDACTED]
83 [REDACTED]
84 [REDACTED]
85 [REDACTED]

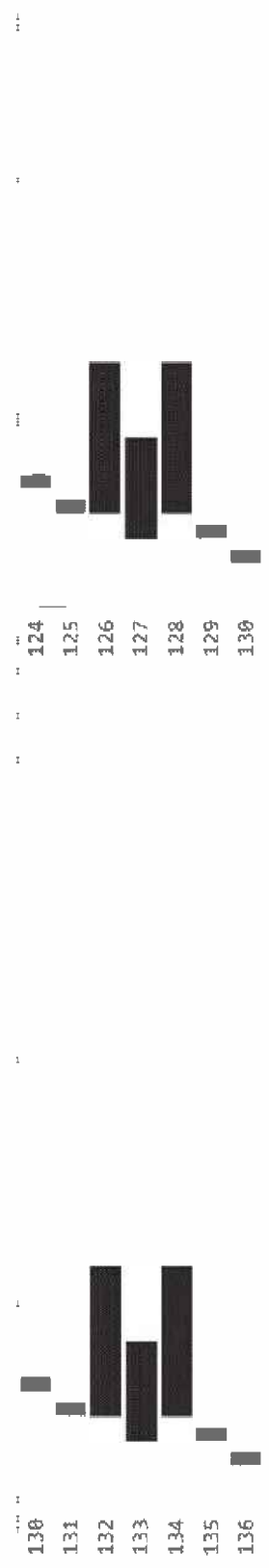
```

```

64 [REDACTED]
65 // add to numConnections our share counts to make the
   numbers
66 // equivalent
67 [REDACTED]
68 [REDACTED]
69 [REDACTED]
70 [REDACTED]
71 [REDACTED]
72 [REDACTED]
73 [REDACTED]
74 [REDACTED]
75 [REDACTED]
76 [REDACTED]
77 [REDACTED]
78 [REDACTED]
79 [REDACTED]
93 [REDACTED]

```

// if URL like counts are whacked, then correct them..  
 // this shouldn't happen very often at all, so we  
 should  
 // ignore any expense as something that isn't worth  
 // worrying about



```

278 |
279 |
280 |
281 |
282 |
283 |
284 |
285 |
286 |
287 |
288 |
289 |

```



```

4 |

```

```

285 | /**
286 |  * Gets the number of 'likes' given an external tracking
287 |  * array.
288 |  * The tracking array can be generated by the getUrlCounts
289 |  * function
290 |  *
291 |  * @param array $tracking_info associative array indexed by
292 |  * tracking param
293 |  *
294 |  * @return integer representing the number of likes we
295 |  * display externally
296 |  */

```



297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307

296  
 297  
 298  
 299  
 300  
 301  
 302  
 303

/\*\*

\* Gets the tracking\_info string given the tracking info associative array.

\* Gets the tracking\_info string given the tracking info associative array.

▲ Show 20 Lines • Show All 205 Lines • Show Last 20 Lines

### Creative Accounting

Action

Comments

jeanabisnar commented on this commit.

PREVIEW

### Remove share\_count from like button counts

Committed All Users

Author rothbart

Reviewers ahime!

the

jeffreyspehar

stoyanstefanov

Lint ★ Lint Postponed

Unit ★ Unit Tests OK

Skip ShareUrlTrackingTests

Show Full Unit Results (8 Passed, 1 Detail)

Perflab ★ Run Perflab Experiment

Commits rE699206: eugeneb merging 698931 | rothbart | Remove share\_count from like button counts

rE698931: Remove share\_count from like button counts

Branch privateMessages

Lines 56

Arcanist Project facebook-www

Repository rE: (Engineering)

Tasks #1969650: sharing URL links in "private message", can increase more likes?

Complete Test Run 8444/35/34/3/3 (pass/skip/fail/fatal/timout) with 0 failure not in trunk

Subscribers arudoiph, vibes-diffs@lists, hubs-diffs@lists and 2 others

Edit Revision

Edit Linked Facebook

Tasks

Edit Dependencies

Download Raw Diff

Ask for Merge for

rE699206: eugeneb

merging 698931 | rothbart |

Remove share\_count from

like button counts

Ask for Merge for

rE698931: Remove

share\_count from like

button counts

Snowfort

Perflab

FBI Strings

Flag For Later

Award Token

Subscribe

Press ? to show keyboard shortcuts.

### SUMMARY

Don't include share\_count in like button counts, following a similar logic to <https://phabricator.fb.com/D602346>.

### TEST PLAN

Rendered like button for a URL, verified count didn't go up when URL is shared via a private message but it does go up when URL is shared publicly.

ahmed accepted this revision.

Via Legacy · Dec 19 2012, 7:34 AM

thanks!

rothbart updated this revision.

Via Legacy · Dec 19 2012, 11:46 AM

A bit more refactoring.

rothbart closed this revision.

Via Legacy · Dec 19 2012, 11:50 AM

Closed by commit rE698931 (authored by @rothbart ).

### Revision Update History

Diff	ID	Base	Description	Created	Lint	Unit
		Base	Base			
Diff 1	1720038	697814		Dec 16 2012, 12:07 PM	*	*
Diff 2	1724267	697814	A bit more refactoring.	Dec 19 2012, 11:45 AM	*	*
Diff 3	1724298	698930	Commit rE698931	Dec 19 2012, 11:49 AM	*	*

Whitespace Changes:

Ignore Most ▾

Show Diff

### Local Commits

Commit	Tree	Parents	Author	Summary	Date
--------	------	---------	--------	---------	------

1119 [REDACTED]

1120 [REDACTED]

1121 [REDACTED]

1122 [REDACTED]

1123 [REDACTED]

1124 [REDACTED]

1125 [REDACTED]

1126 [REDACTED]

1127 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

57 [REDACTED]

59 [REDACTED]

60 // If no share information exists for this page, it is not worth indexing

61 [REDACTED]

62 [REDACTED]

63 [REDACTED]

64 [REDACTED]

65 [REDACTED]

66 [REDACTED]

67 [REDACTED]

68 [REDACTED]

69 [REDACTED]

70 [REDACTED]

71 [REDACTED]

// If no share information exists for this page, it is not worth indexing



8



144

145

146

147 // for facebook uris, external share object counts are not

148 // accurate (shared with different codepath), thus we

always go

149 // with the sampleconnections likes without the normal

share

// tracking

150

151

152

153

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157

158

159

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161

162

163

164

165

166

167

168

// for facebook uris, external share object counts are not

// accurate (shared with different codepath), thus we

always go

// with the sampleconnections likes without the normal

share

// tracking



```

59 [REDACTED]
60 [REDACTED]
61 [REDACTED]
62 [REDACTED]
63 // save our fan connections so we can get this number
   separately
64 [REDACTED]
65 // add to numConnections our share counts to make the
   numbers
66 // equivalent
67 [REDACTED]
68 [REDACTED]
69 [REDACTED]
70 [REDACTED]
71 [REDACTED]
72 // if URL like counts are whacked, then correct them..
73 // this shouldn't happen very often at all, so we
   should
74 // ignore any expense as something that isn't worth
75 // worrying about
76 [REDACTED]
77 [REDACTED]
78 [REDACTED]
79 [REDACTED]
80 [REDACTED]
81 [REDACTED]
82 [REDACTED]
83 [REDACTED]
84 [REDACTED]
85 [REDACTED]

```

```

35 [REDACTED]
59 [REDACTED]
60 [REDACTED]
61 [REDACTED]
62 [REDACTED]
63 // save our fan connections so we can get this number
   separately
64 [REDACTED]
65 // add to numConnections our share counts to make the
   numbers
66 // equivalent
67 [REDACTED]
68 [REDACTED]
69 [REDACTED]
70 [REDACTED]
71 [REDACTED]
72 [REDACTED]
73 [REDACTED]
74 [REDACTED]
75 [REDACTED]
76 [REDACTED]
77 [REDACTED]
78 [REDACTED]
79 [REDACTED]

```

