

Gender: Representation and Online Participation in StackOverflow

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Alexander Serebrenik
@aserebrenik

Context

- under-representation of women in STEM-related subjects
 - EU: “Science: It’s a girl thing!”
- less unbalanced representation of women in the use of Internet technologies
 - <5% of open-source developers are women

Compare double to zero using epsilon

▲
118
▼
★
13

Today, I was looking through some C++ code (written by somebody else) and found this section:

```
double someValue = ...
if (someValue < std::numeric_limits<double>::epsilon() &&
    someValue > -std::numeric_limits<double>::epsilon()) {
    someValue = 0.0;
}
```

I'm trying to figure out whether this even makes sense.

The documentation for `epsilon()` says:

The function returns the difference between 1 and the smallest value greater than 1 that is representable [by a double].

Does this apply to 0 as well, i.e. `epsilon()` is the smallest value greater than 0? Or are there numbers between 0 and 0 + epsilon that can be represented by a double?

If not, then isn't the comparison equivalent to `someValue == 0.0`?

[c++](#) [double](#)

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asked Dec 4 at 8:41



[Sebastian Krysmanski](#)

1,046 ● 1 ● 2 ● 21

88% accept rate

11 +1 for good find, good research and good question – [Krishnabhadra](#) Dec 4 at 8:44

3 The epsilon around 1 will most likely be much higher than that around 0, so there will probably be values between 0 and 0+epsilon_at_1. I guess the author of this section wanted to use something small, but he didn't want to use a magic constant, so he just used this essentially arbitrary value. – [enobayram](#) Dec 4 at 8:53

-1e-20 and +1e-20?

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answered Dec 4 at 8:50

 [cababunga](#)
1,682 • 3 • 8

Except for zero, I don't think that there are values between -1e-20 and +1e-20. But just because I think this doesn't make it true. – [Sebastian Krysmanski](#) Dec 4 at 8:52

@SebastianKrysmanski: it's not true, there are lots of floating-point values between 0 and `epsilon`. Because it's *floating* point, not fixed point. – [Steve Jessop](#) Dec 4 at 8:53 /

The smallest representable value that is distinct from zero is limited by number of bits allocated to represent exponent. So if double has 11 bit exponent, the smallest number would be 1e-1023. – [cababunga](#) Dec 4 at 9:07 /

add comment



With IEEE floating-point, between the smallest non-zero positive value and the smallest non-zero negative value, there exist two values: positive zero and negative zero. Testing whether a value is between the smallest non-zero values is equivalent to testing for equality with zero; the assignment, however, may have an effect, since it would change a negative zero to a positive zero.

It would be conceivable that a floating-point format might have three values between the smallest finite positive and negative values: positive infinitesimal, unsigned zero, and negative infinitesimal. I am not familiar with any floating-point formats that in fact work that way, but such a behavior would be perfectly reasonable and arguably better than that of IEEE (perhaps not enough better to be worth adding extra hardware to support it, but mathematically $1/(1/\text{INF})$, $1/(-1/\text{INF})$, and $1/(1-1)$ should represent three distinct cases illustrating three different zeroes). I don't know whether any C standard would mandate that signed infinitesimals, if they exist, would have to compare equal to zero. If they do not, code like the above could usefully ensure that e.g. dividing a number repeatedly by two would eventually yield zero rather than being stuck on "infinitesimal".

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answered Dec 4 at 16:05

 [supercat](#)
12.4k • 12 • 25

Isn't " $1/(1-1)$ " (from your example) infinity rather than zero? – [Sebastian Krysmanski](#) Dec 5 at 8:34

The quantities $(1-1)$, $(1/\text{INF})$, and $(-1/\text{INF})$ all represent zero, but dividing a positive number by each of them should in theory yield three different results (IEEE math regards the first two as identical). – [supercat](#) Dec 5 at 14:22



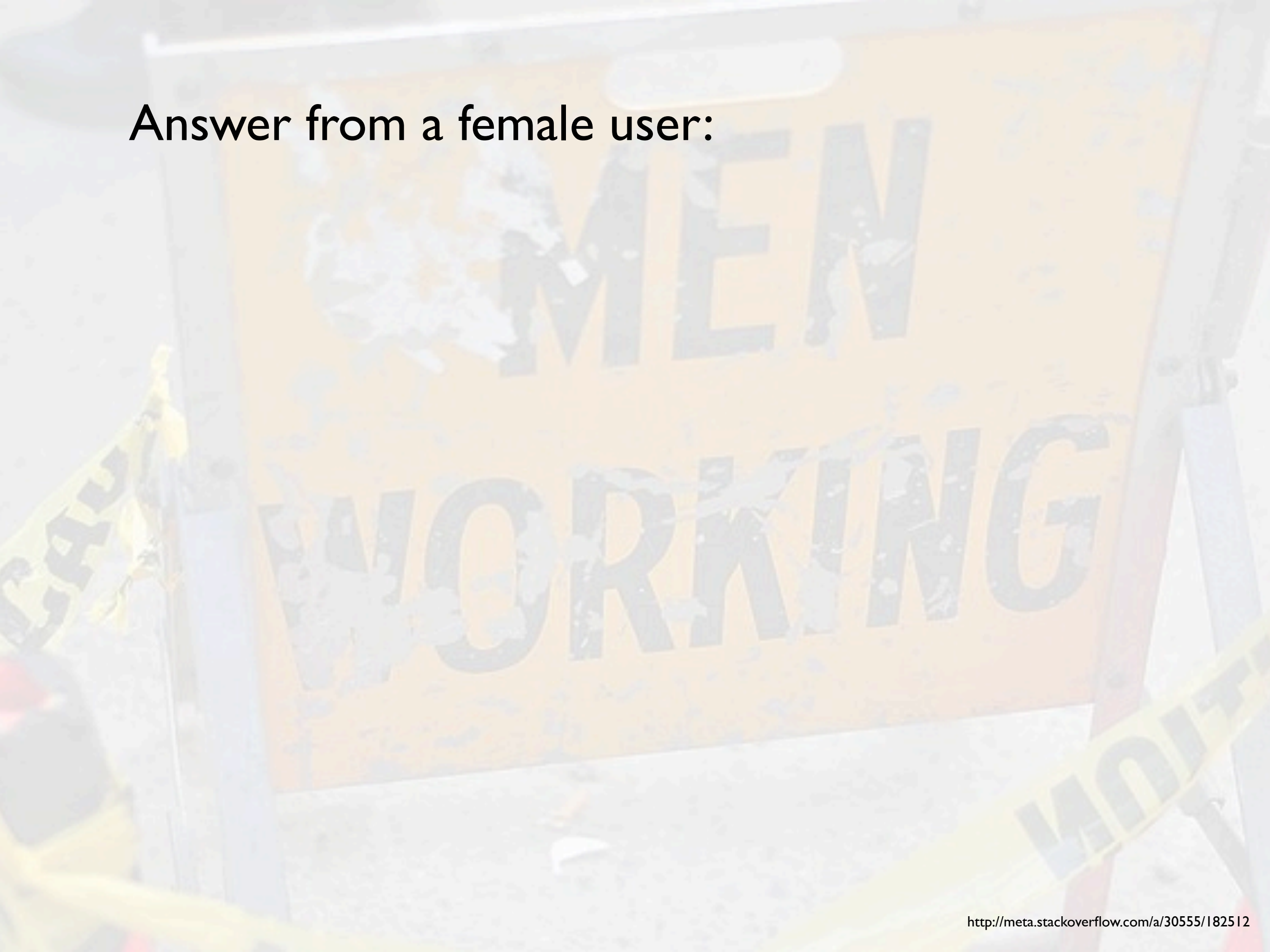
"I know a lot of female programmers, and I know there are a good number of them out there.

But I don't recall ever having one of my questions answered by, nor have I ever answered a question by a female programmer here at Stack Overflow. [...]

Why aren't there more of them participating, both with questions and answers?

What can Stack Overflow do to persuade female programmers to participate more?"

Answer from a female user:



Answer from a female user:

"This isn't the first time I've thought of [why] my question/answer ratio on SO is DEPLORABLE. The answer is **there is NO appeal for me in answering questions.** [...]

I WILL answer if I am on and happen to see a question that I know the answer to. However, **I don't go looking for them,** really.

I think the answer is **it doesn't entertain me and I don't find much fulfillment in it."**

A faint, light gray background image showing the silhouettes of a man and a woman standing back-to-back. The woman is on the left, wearing a blazer and high heels, and the man is on the right, wearing a suit. They are both facing away from the camera.

What is the participation rate
of women in StackOverflow?

Do men and women
contribute equally?

A faint, gray silhouette of a man and a woman standing back-to-back, facing opposite directions. The woman is on the left, wearing a dress and high heels. The man is on the right, wearing a suit. They are positioned behind the text.

What is the participation rate
of women in StackOverflow?

How to identify
gender?

Do men and women
contribute equally?

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	seen	yesterday
stats	profile views	7,281

3,903 reputation
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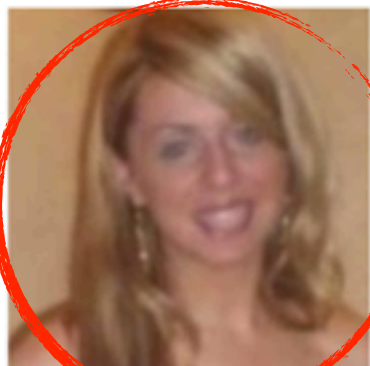
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(Sara, USA): female

(Andrea, Italy): male; (Andrea, Germany): female

(Bogdan,): male

(Anna Akhmatova, Russia): female

(Andrea Demirović, Montenegro): unknown

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NHibernate.MappingException: No persister for:

11

How hard is it to use NHibernate with SQL Server?

10

Possibly lost some changes via git

10

Interview question: How do you handle a large number of concurrent users?

9

ASP.NET controls cannot be referenced in code-behind in Visu...

+5

Delegate event firing twice

+2

live() keyword not working on load with dynamic html images

+5

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location New York, NY

JavaScript developer





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In which I answer all of the questions

This blog post has been in the corners of my mind and nipping at my ankles for a while. Please don't linkbait this, or pick comment fights. This isn't for upvotes, or HN fame.

Many people I meet ask me a variant on this question "I understand we want more women in technology, but why?" It's a great question, and not at all something we should be offended by. Often men are afraid to ask questions like this for fear there will be backlash, I think that fear can lead to stifling of an important conversation.

Frankly, the internet is thriving without women building it, why should that change?

I put together the following answer for a [Quora thread](#), I thought it would be also advantageous to put it here, so I (and maybe you) can reference it in the future.

I think the reason why we need more women building technology is threefold, I will outline below.

You will notice I stay away from generalizations like "women are better at xyz," because such generalizations imply that we therefore must be worse at other things that men may be able to do better. I don't think approaching the argument that way is productive.

Diversity leads to better products and results

As illustrated in the Cornell study included below and many more to be found online, diversity improves performance, morale, and end product. More women engineers means building a better internet, and improving software that can service society as a whole. Building a better internet is why I started doing software development in the first place, I think we can all agree this is of utmost importance.

(source: <http://web.mit.edu/cortiz/www/Diversity/PDFs/Uehn%20et%20al%201999.pdf>)

The internet is the largest recording of human history ever built

Right now the architecture for that platform is being built disproportionately by white and asian males. You've heard the phrase "he who writes history makes history"? We don't yet know how this will affect future generations.

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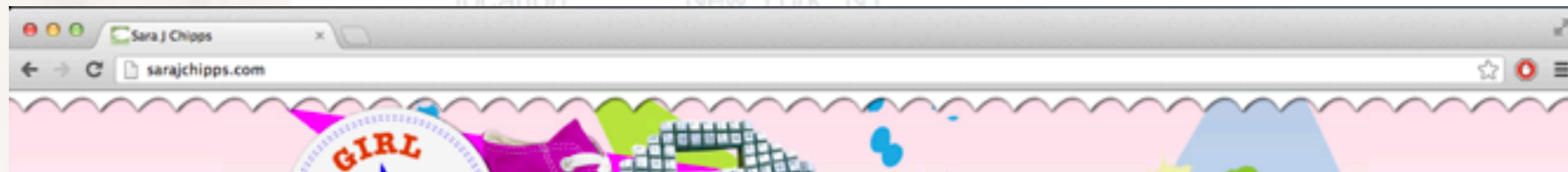
Stump Her!

Have a question/comment/suggestion for Sara? Think you can drop some tech that she can't handle? Shoot her an email at [sarajchipps \[at\] gmail.com](mailto:sarajchipps[at]gmail.com)

Please note: All marriage proposals must

website

sarajchipps.com



In which I answer all

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Frankly, the internet is thriving

I put together the following advantageous to put it here,

I think the reason why we outline below.

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Diversity leads to better products
As illustrated in the Cornell study, diversity improves performance. Building a better Internet, and building a better world, is what we think we can all agree this is about.

(source: <http://web.mit.edu/c>)

The internet is the largest, Right now the architecture of Asian males. You've heard I wet know how this will affect

```
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_gaq.push(['t2._setDomainName', 'none']);
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_gaq.push(['t2._setCustomVar', 1, 'Blog', '6a0133f1bc6afb970b0133f1f92502970b', 3]);
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_gaq.push(['t2._trackPageview']);

(function() {
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ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
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})();
</script>

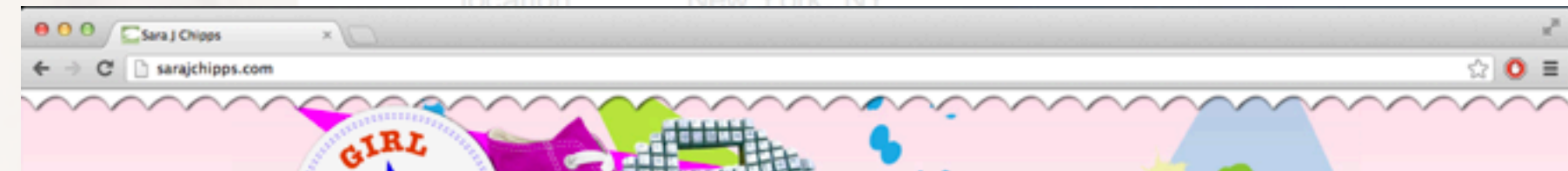
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<link rel="EditURI" type="application/rad+xml" title="RSD"
href="http://www.typepad.com/services/rad/6a0133f1bc6afb970b0133f1f92502970b" />
```


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In which I answer all

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(source: <http://web.mit.edu/c...>)

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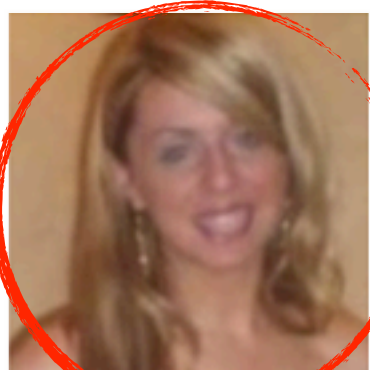
view-source:sarajchipps.com

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1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml" id="typepad-standard" xmlns:fb="http://www.facebook.com/2008/fbml">
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5     <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
6     <meta name="generator" content="http://www.typepad.com/" />
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14 href="http://www.sarajchipps.com/index.rdf" />
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18     var TPApp = {};
19     TPApp.app_uri = "http://www.typepad.com/";
20 </script>
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27     _gaq.push(['t2._setAllowLinker', true]);
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31         (function() {
32             var ga =
33             ga.src =
34             var s =
35         })());
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38 <title>Sara J Chipps</title>
39 <link rel="openid.server" href="http://www.typepad.com/services/openid/server" />
40 <link rel="EditURI" type="application/rsd+xml" title="RSD"
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visits member for 4 years, 3 months
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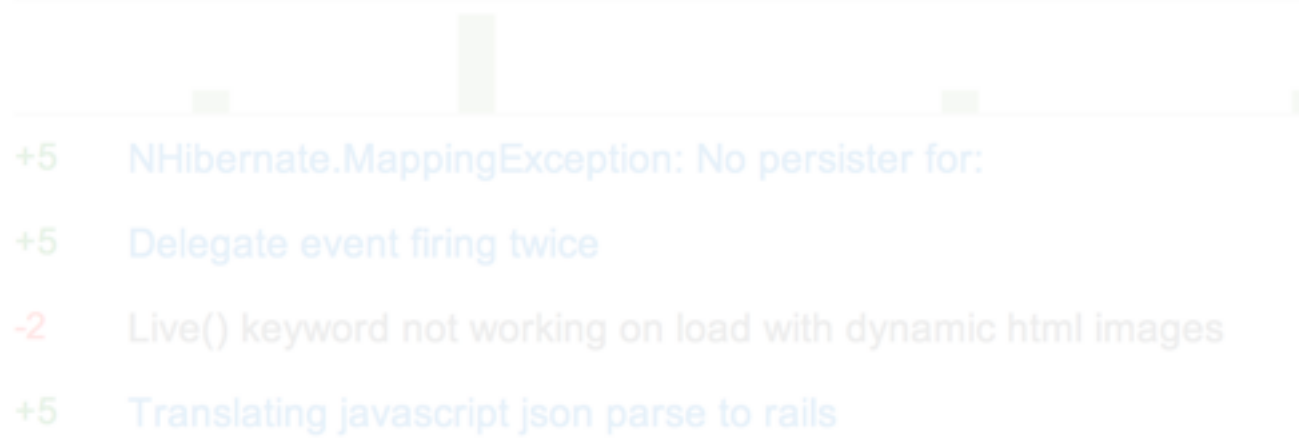
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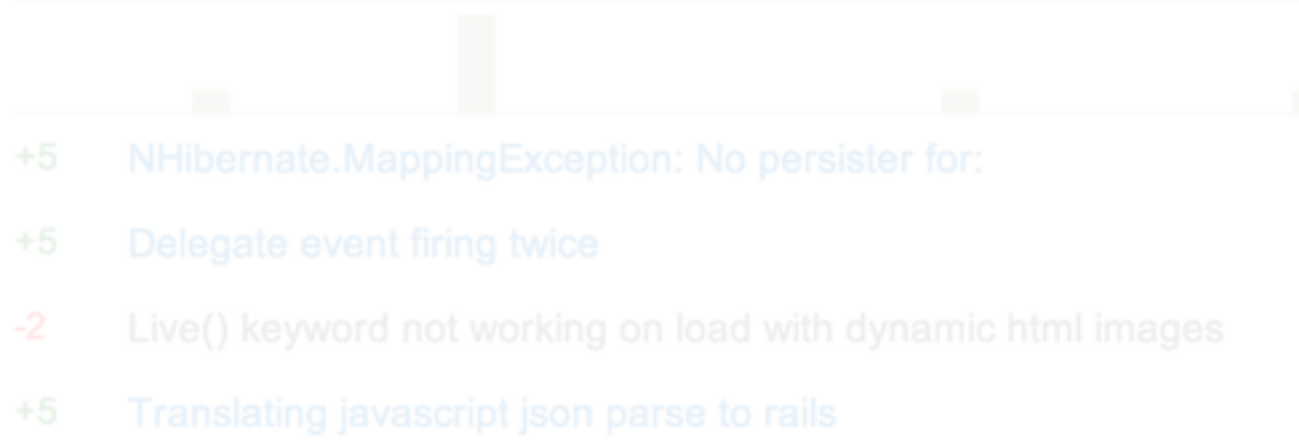
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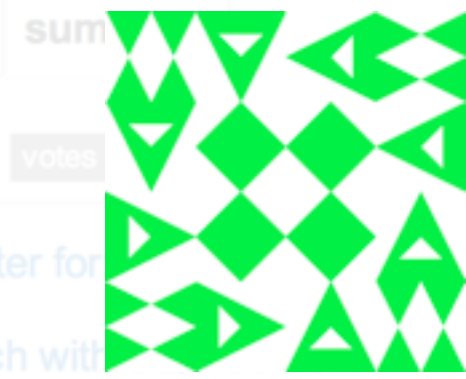
(Tomalak Geret'kal, UK)

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(user4106, -)

same email hash as George Washington

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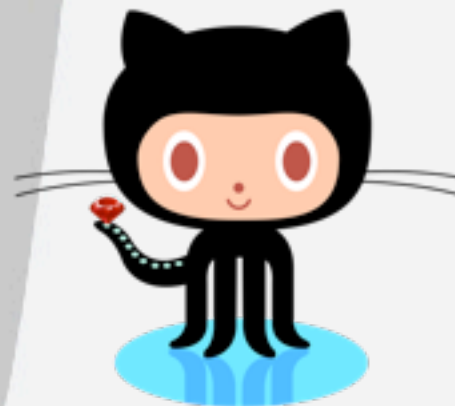
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How to identify gender?

~50% resolved → sample and check manually



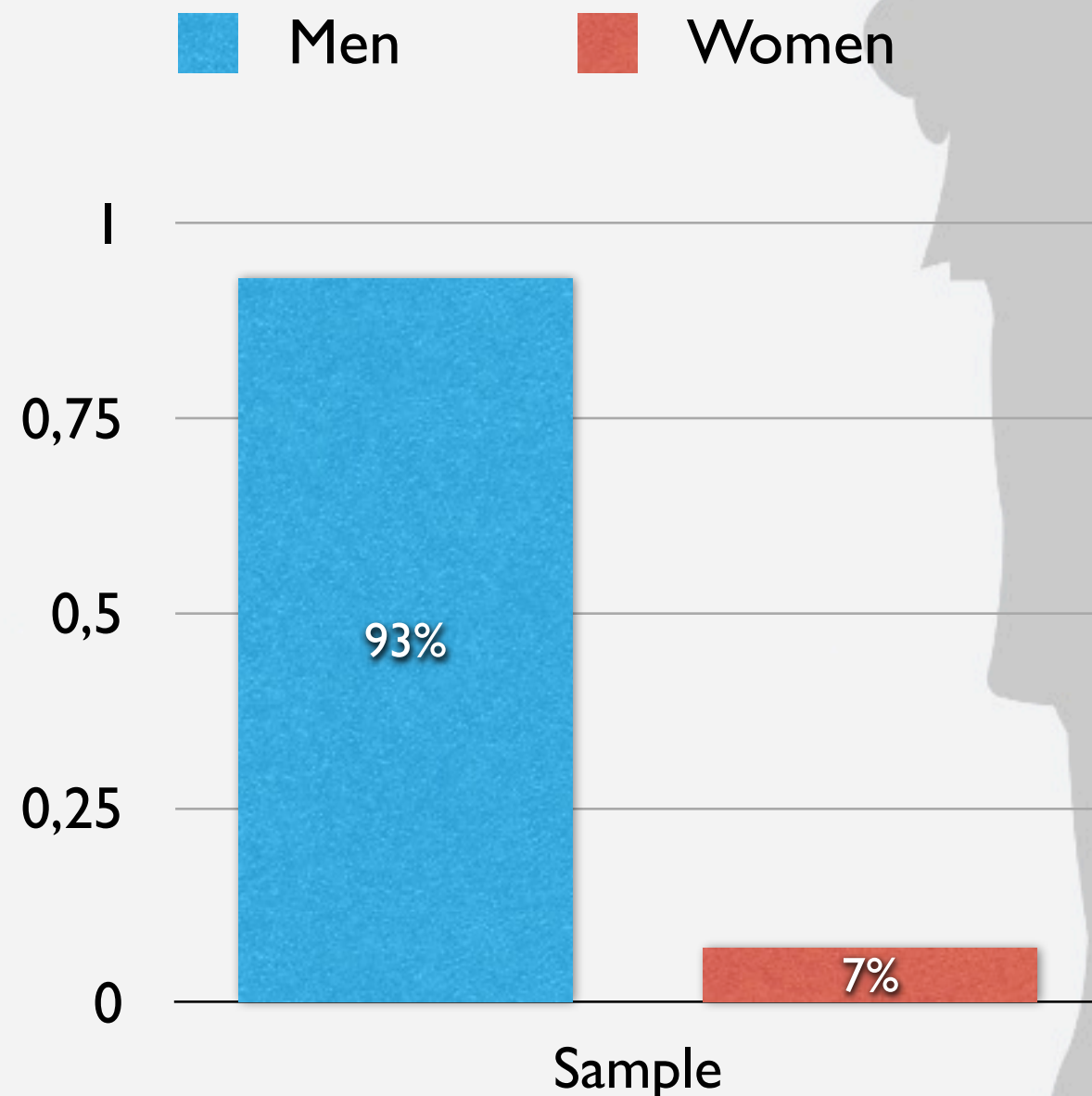
Are women
underrepresented?



Are women underrepresented?

1-5% of open source developers are women

28% female employees with computer and mathematical occupations



Do men and women contribute equally?

Mann-Whitney tests (95% confidence), e.g.
reputation:

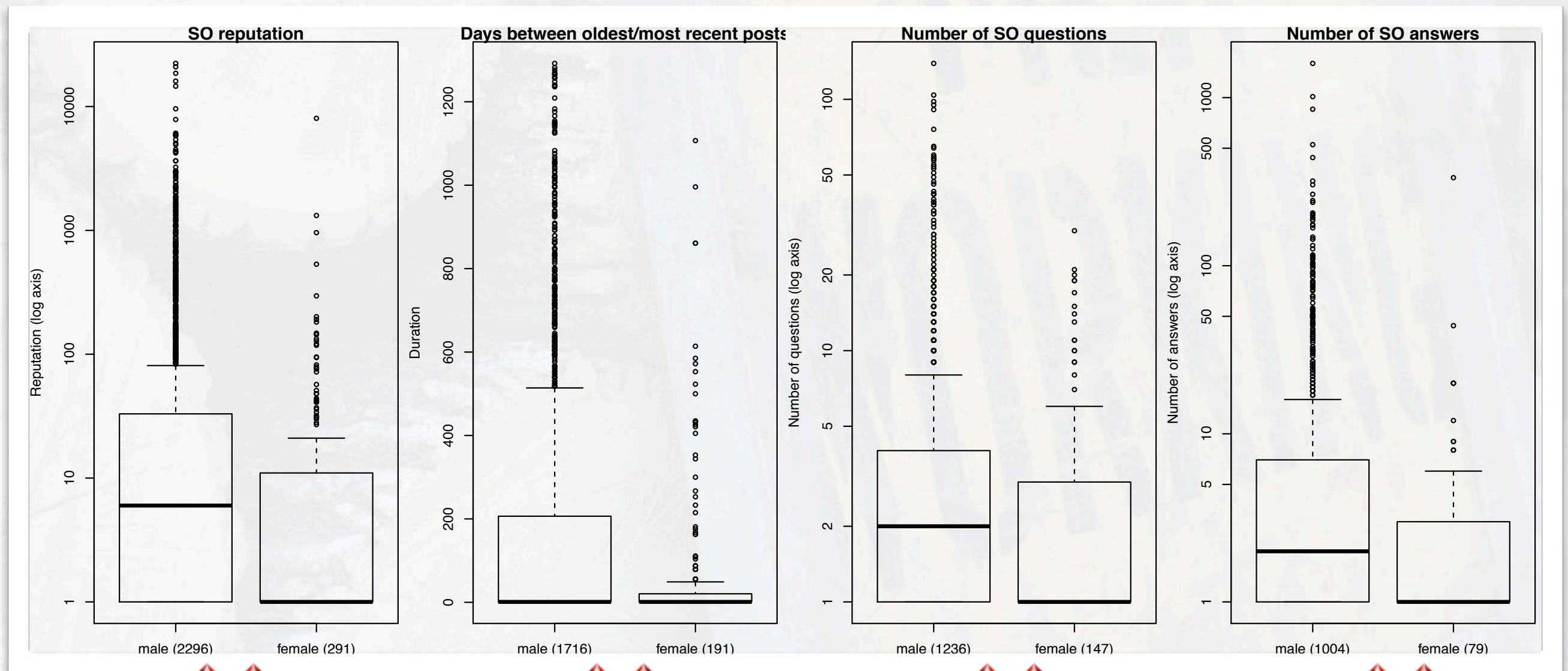


- H_0 : women and men achieve similar levels of reputation



- H_1 : men achieve higher reputation levels

Do men and women contribute equally?



reputation

duration

#questions

#answers

“I don't recall ever having one of my questions answered by a female programmer”

Female user: “There is NO appeal for me in answering questions, it doesn't entertain me”

What is the **participation rate** of women in StackOverflow?

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one of my questions
summer”

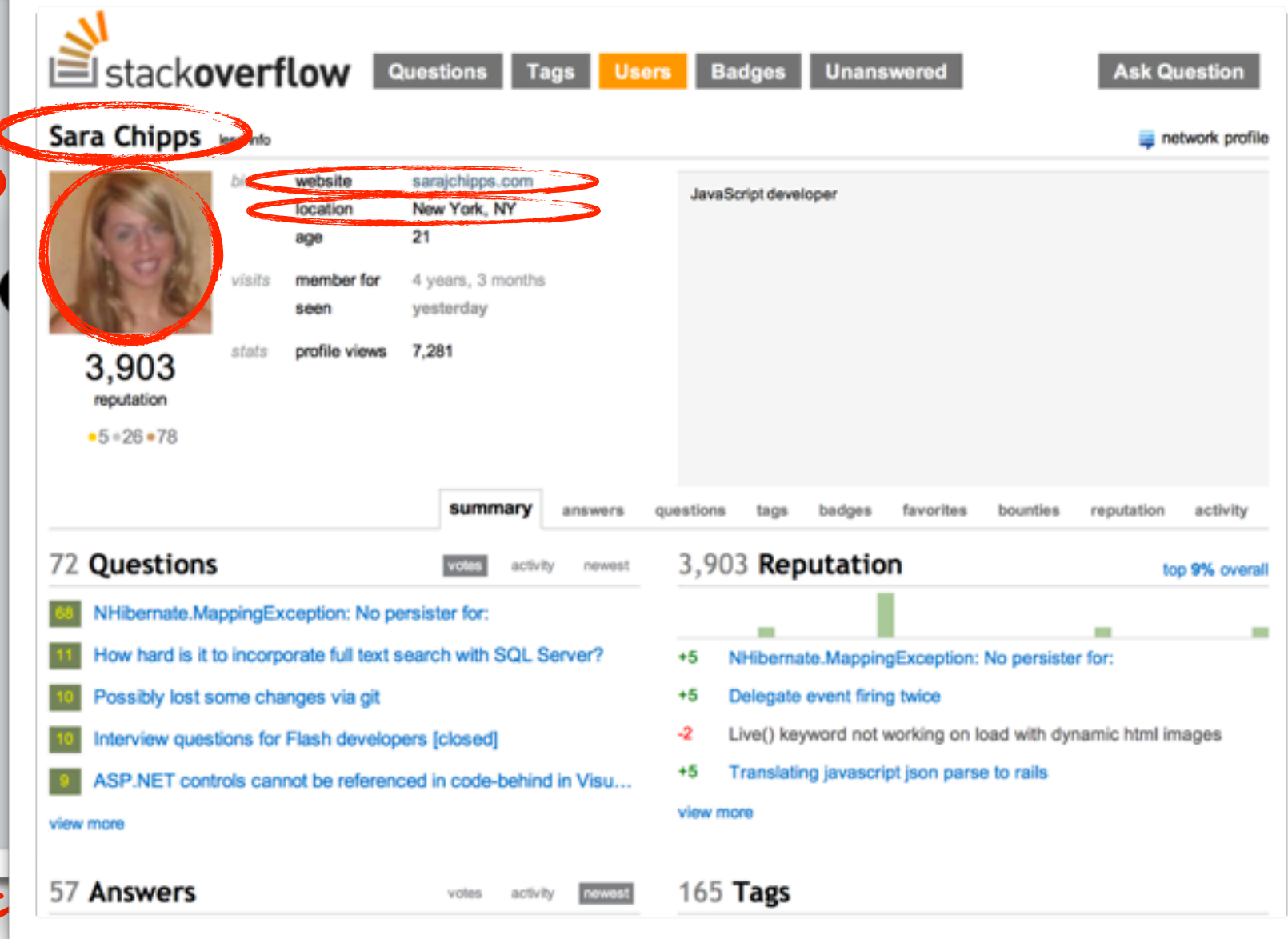
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Do men and women **contribute equally**?

answering quest



The screenshot shows the Stack Overflow profile of Sara Chipps. The profile includes a header with navigation links (Questions, Tags, Users, Badges, Unanswered, Ask Question) and a network profile link. The main section displays the user's name, a profile picture, and a bio. Below this, there are statistics for reputation (3,903), visits, member for (4 years, 3 months), seen (yesterday), and profile views (7,281). The profile also lists a website (sara chipps.com) and a location (New York, NY). The 'summary' tab is selected, showing a list of 72 questions and 57 answers. The reputation section shows a bar chart and a list of recent contributions with their respective scores.

Stack Overflow

Questions Tags Users Badges Unanswered Ask Question

Sara Chipps

JavaScript developer

website: sara chipps.com

location: New York, NY

age: 21

visits: member for 4 years, 3 months seen yesterday

stats: profile views 7,281

3,903 reputation

5 26 78

summary answers questions tags badges favorites bounties reputation activity

72 Questions

votes activity newest

- 68 NHibernate.MappingException: No persister for:
- 11 How hard is it to incorporate full text search with SQL Server?
- 10 Possibly lost some changes via git
- 10 Interview questions for Flash developers [closed]
- 9 ASP.NET controls cannot be referenced in code-behind in Visu...

view more

3,903 Reputation

top 9% overall

- +5 NHibernate.MappingException: No persister for:
- +5 Delegate event firing twice
- 2 Live() keyword not working on load with dynamic html images
- +5 Translating javascript json parse to rails

view more

57 Answers

votes activity newest

165 Tags

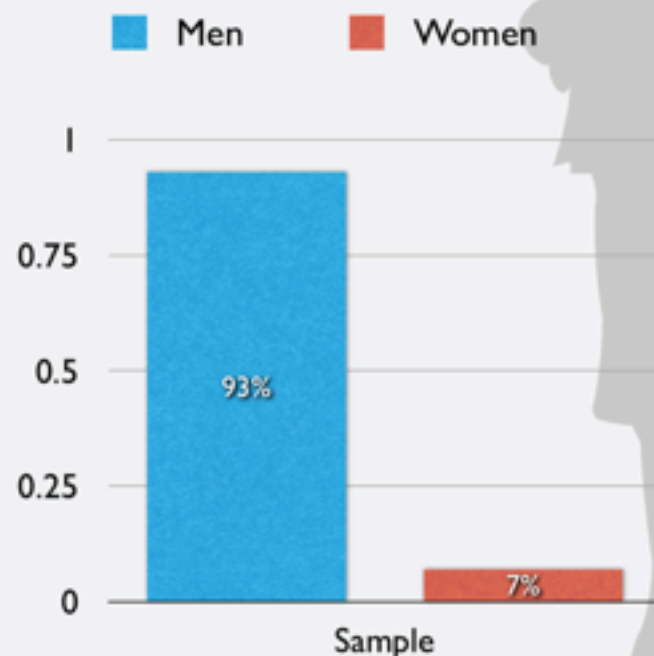
What is the **participation rate** of women in StackOverflow?

Do men and women **contribute equally**?

Are women underrepresented?

1-5% of open source developers are women

28% female employees with computer and mathematical occupations



A screenshot of the Stack Overflow profile for Sara Chipps. The profile includes a header with navigation links (Questions, Tags, Users, Badges, Unanswered, Ask Question) and a user card. The user card shows the name 'Sara Chipps', a profile picture, and a reputation of 3,903. Below the user card, there is a table of statistics: website (sarajchipps.com), location (New York, NY), age (21), visits (member for 4 years, 3 months, seen yesterday), and stats (profile views 7,281). To the right of the user card, there is a section for 'JavaScript developer' and a 'network profile' link. Below the user card, there is a 'summary' tab and a list of questions. The first question is 'NHibernate.MappingException: No persister for:'. To the right of the questions, there is a '3,903 Reputation' section with a bar chart showing the distribution of reputation. Below the reputation section, there is a '165 Tags' section.

What is the **participation rate** of women in StackOverflow?

Do men and women **contribute equally**?

stackoverflow Questions Tags Users Badges Unanswered Ask Question

Sara Chipps bio info network profile

website sarajchipps.com
location New York, NY
age 21

visits member for 4 years, 3 months
seen yesterday

stats profile views 7,281

3,903 reputation
5 26 78

JavaScript developer

summary answers questions tags badges favorites bounties reputation activity

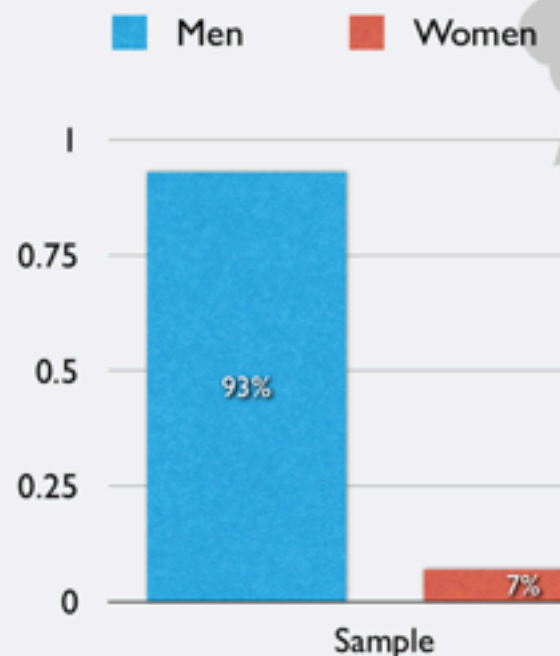
72 Questions votes activity newest 3,903 Reputation top 9% overall

NHibernate.MappingException: No persister for: arch with SQL Server? +5 NHibernate.MappingException: No persister for:

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