On the nature of

Anonymous editors

Research results included!

Outline

1. What's an anonymous editor?

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- 1. What's an anonymous editor?
- 2. How much do anons contribute?

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- 1. What's an anonymous editor?
- 2. How much do anons contribute?
- 3. New results: Anons who register

Part 1

What's an anonymous editor?

(of a person) not identified by name; of unknown name.

(of a person) not identified by name; of unknown name.

User:EpochFail

User:128.101.33.82

(of a person) not identified by name; of unknown name.

User:EpochFail



This is a name! But it's a bad identifier.

Registered editors Anon editors

Registered editors Anon editors

1:1 with a human*

* almost always true. Sometimes bots. Also sometimes sock puppets.

1:1 with a human*

Anon editors

- 1:1 with an IP address
- 1 human -> many IPs
- many IPs -> 1 human

* almost always true. Sometimes bots. Also sometimes sock puppets.

1:1 with a human*

Persistent identity

- Credit
- Contact
- Personalized

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Anon editors

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- 1 human -> many IPs
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1:1 with a human*

Persistent identity

- Credit
- Contact
- Personalized

1:1 with an IP address

- 1 human -> many IPs
- many IPs -> 1 human

No persistent identity

- Credit
- Contact
- Personalized

Anon editors

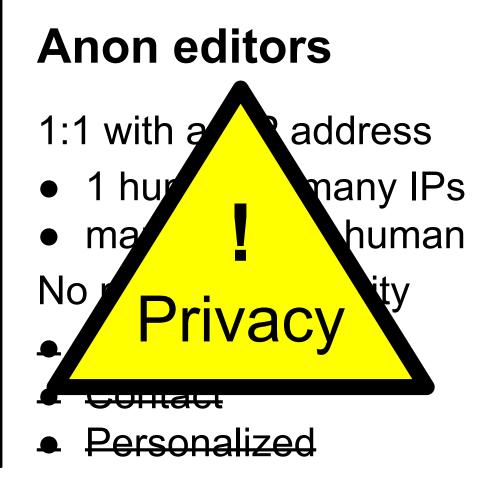
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1:1 with a human*

Persistent identity

- Credit
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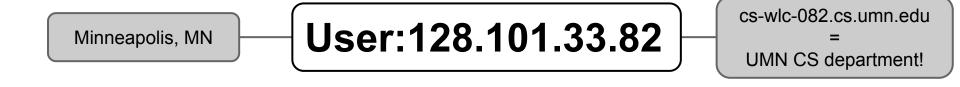


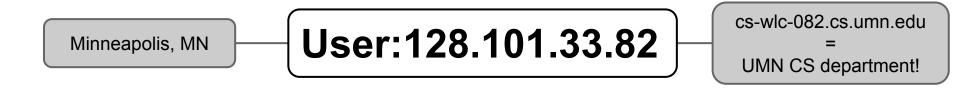
Anonymous users are *less* private?



User:128.101.33.82









Minneapolis, MN

User:128.101.33.82

cs-wlc-082.cs.umn.edu = UMN CS department!



• Strictly, an IP address

- Strictly, an IP address
- A messy identifier of a human

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- A privacy vulnerability

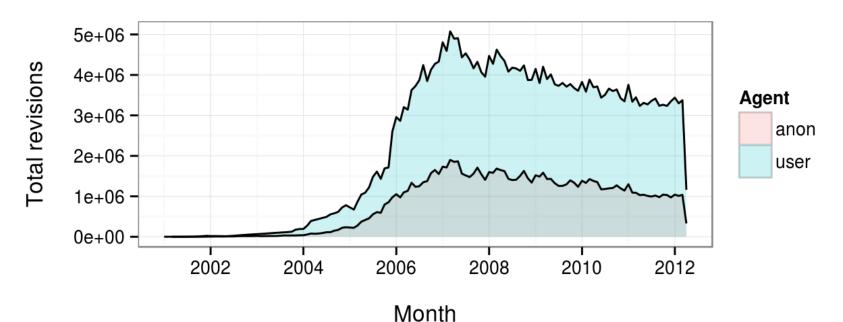
- Strictly, an IP address
- A messy identifier of a human
- A privacy vulnerability

• Responsible for somewhere between 3.7 and 23% of Wikipedia.

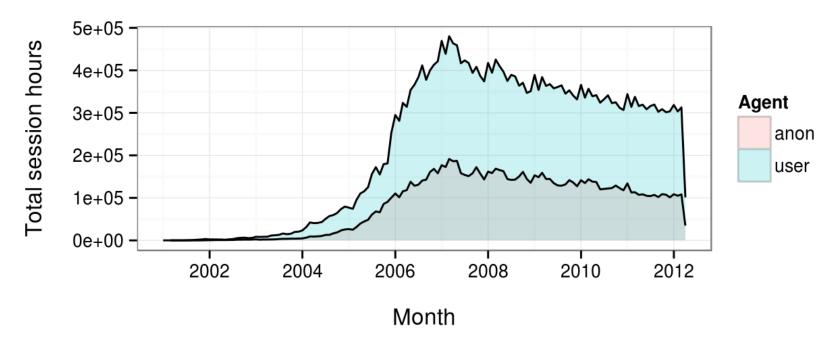
Part 2

How much do anons contribute?

Revisions saved (23%)

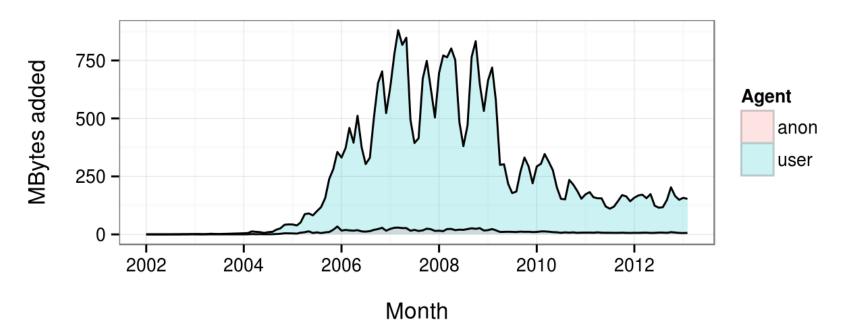


Time spent editing (23%)



See <u>https://meta.wikimedia.org/wiki/R:Edit_session</u>

Bytes added to articles (3.7%)



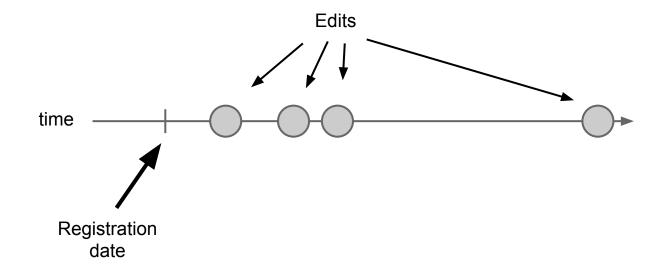
In summary

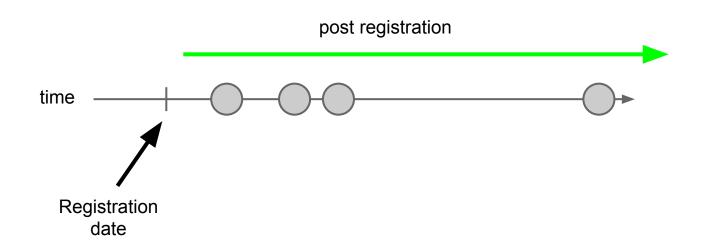
- 23% of revisions and time spent editing
- 3.7% of content

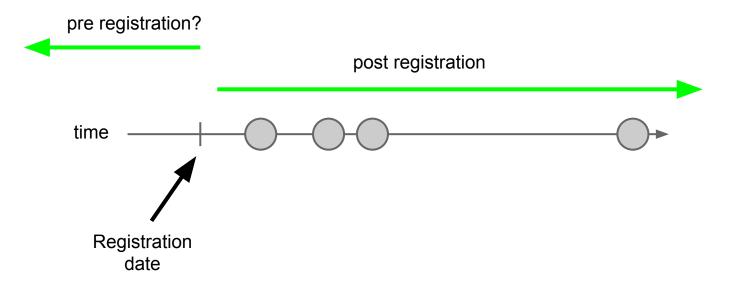
Part 3

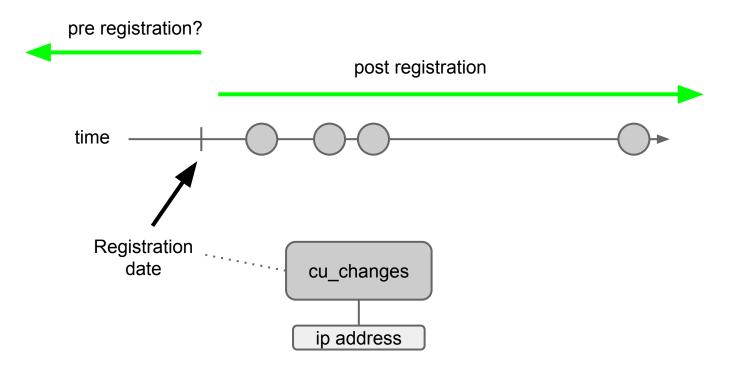
New results: Anons who register accounts

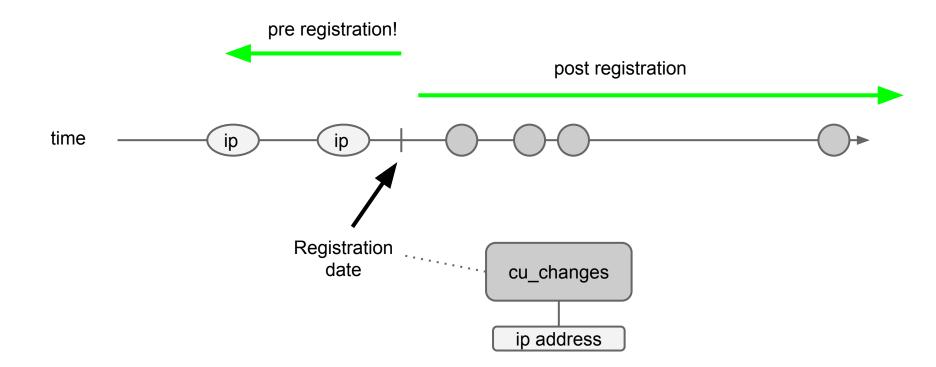


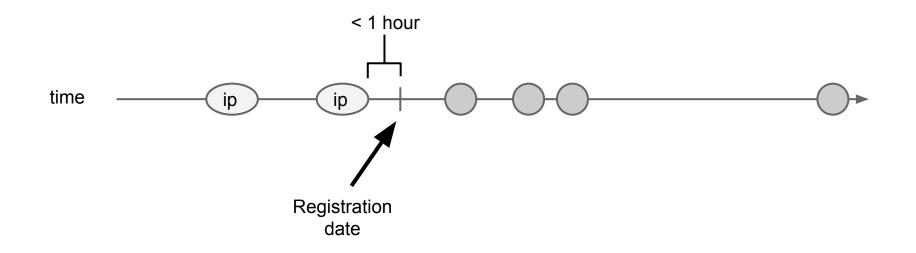


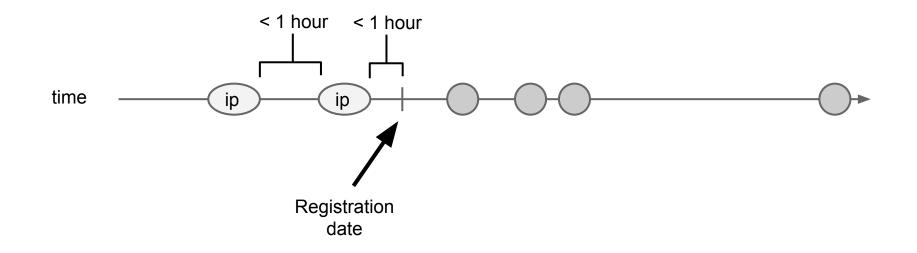


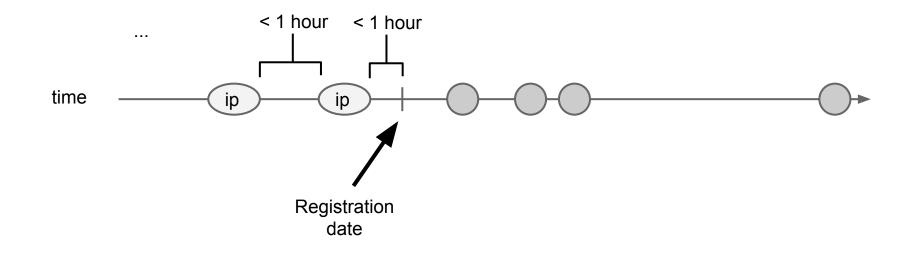


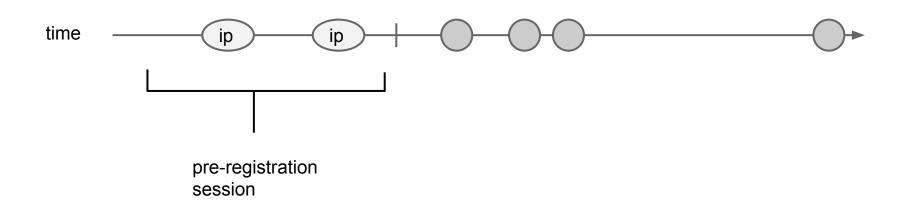


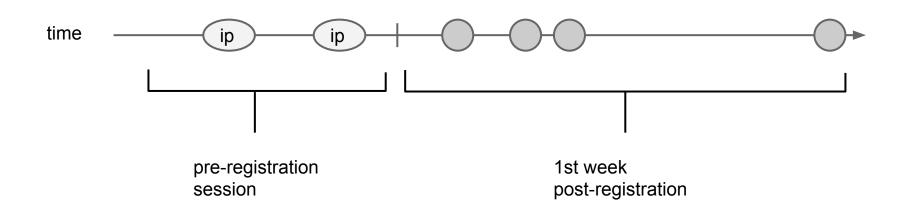




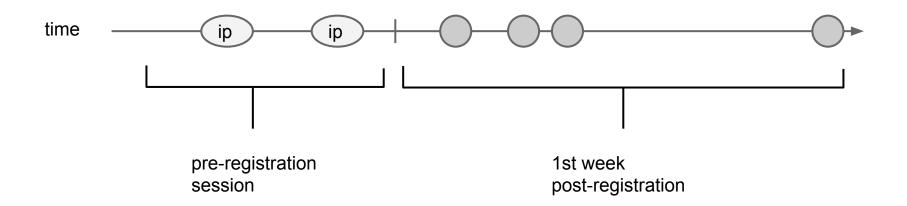








Analysis: Sampled 4904 new users



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- 17% more productive (incl. pre-registration)

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- 6% more productive (excl. pre-registration)

TL;DR:

Editors who edit anonymously right before registering an account are our **most productive** "new editors".

