Beyond the Repository

Best practices for open source ecosystems

researchers

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FOSDEM 2024
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Opportunity to bridge the gap
When researching open source ecosystems, consider...

- Data ethics
- Research best practices
- Respect and equity
- Ecosystem integrity
Data ethics
"Summary: We found no general model to predict software developer’s well-being from software repositories."

Retain the "socio" element when scoping research questions of a sociotechnical ecosystem.
Research best practices
"Contextual integrity ties adequate protection for privacy to norms of specific contexts, demanding that information gathering and dissemination be appropriate to that context and obey the governing norms of distribution within it."

– Helen Nissenbaum
(bit.ly/privacy-integrity)
"...there's a difference between people browsing my profile and deciding to ping me and people sending emails to tens of thousands of emails because they have one convenient data set..."

– GitHub User, 2016
(bit.ly/ghtorrent-32)
Openness isn’t a good in itself, find the balance between privacy, ethics, and transparency when processing and sharing data.
Respect and equity
"I’ve already told my partner that, if and when we decide to start having kids, I will probably quit open source for good. I just can’t see how I’ll be able to make the time for both raising a family and doing open source."

– Lawson, 2017

(bit.ly/family-and-oss)
Assume that the economic incentives and availability of the people who keep the lights on are not evenly distributed.
Ecosystem integrity
"The researchers crossed a line they shouldn’t have crossed. Nobody hired this group. They just chose to do it. And a whole lot of people spent a whole lot of time evaluating their patches."

– Greg Scott, 2021
(bit.ly/banned-from-linux)
Always treat open source ecosystems as systems "in production."
Actively work with open source ecosystems.

Consider the ramifications of research.

Look beyond the repository.
We can bridge the gap between researchers and practitioners by working together.
Thank you! — References

- **These slides:** [bit.ly/beyond-the-repo-fosdem24](bit.ly/beyond-the-repo-fosdem24)