

# Software Developers are Human, Too!



Bogdan  
Vasilescu

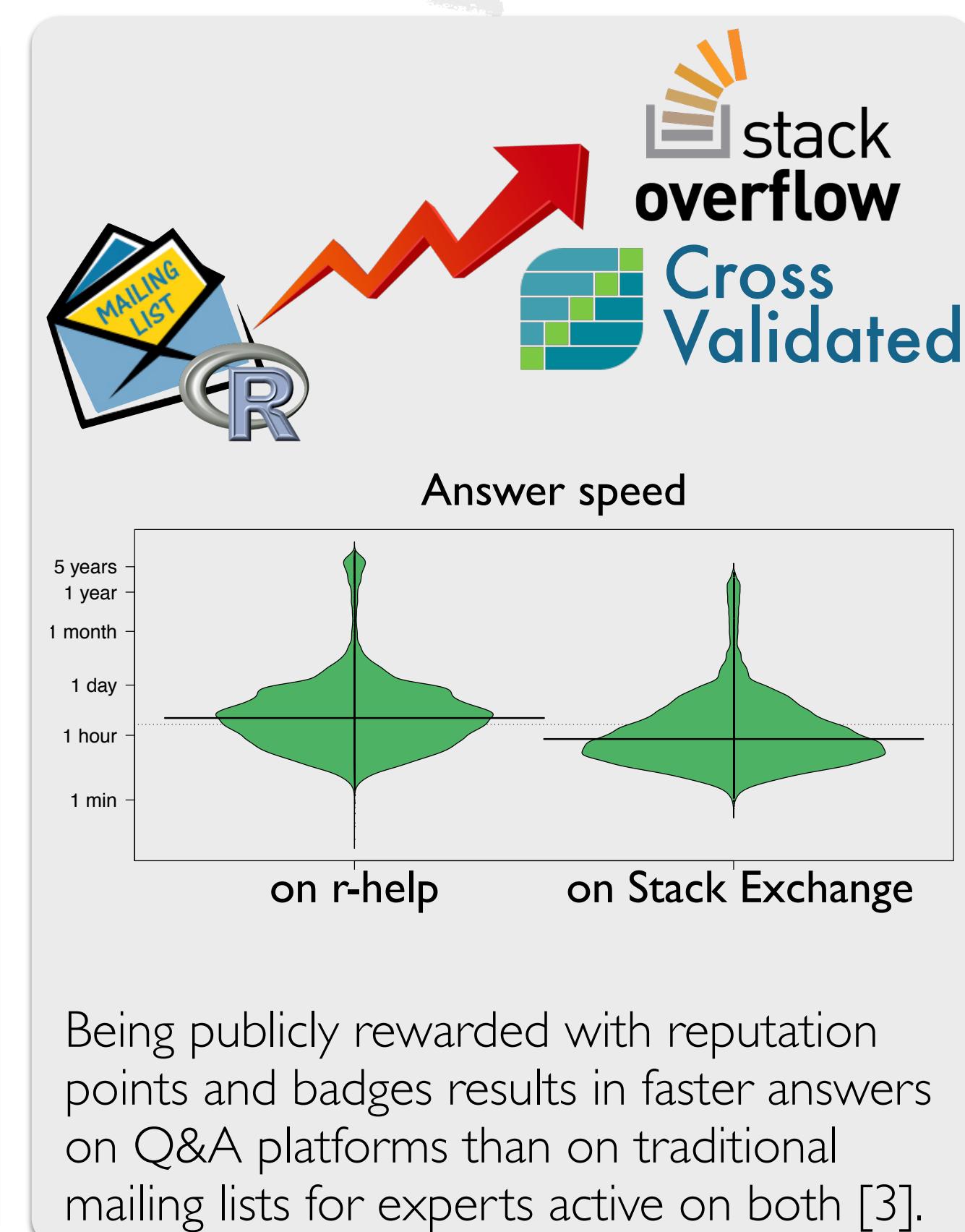
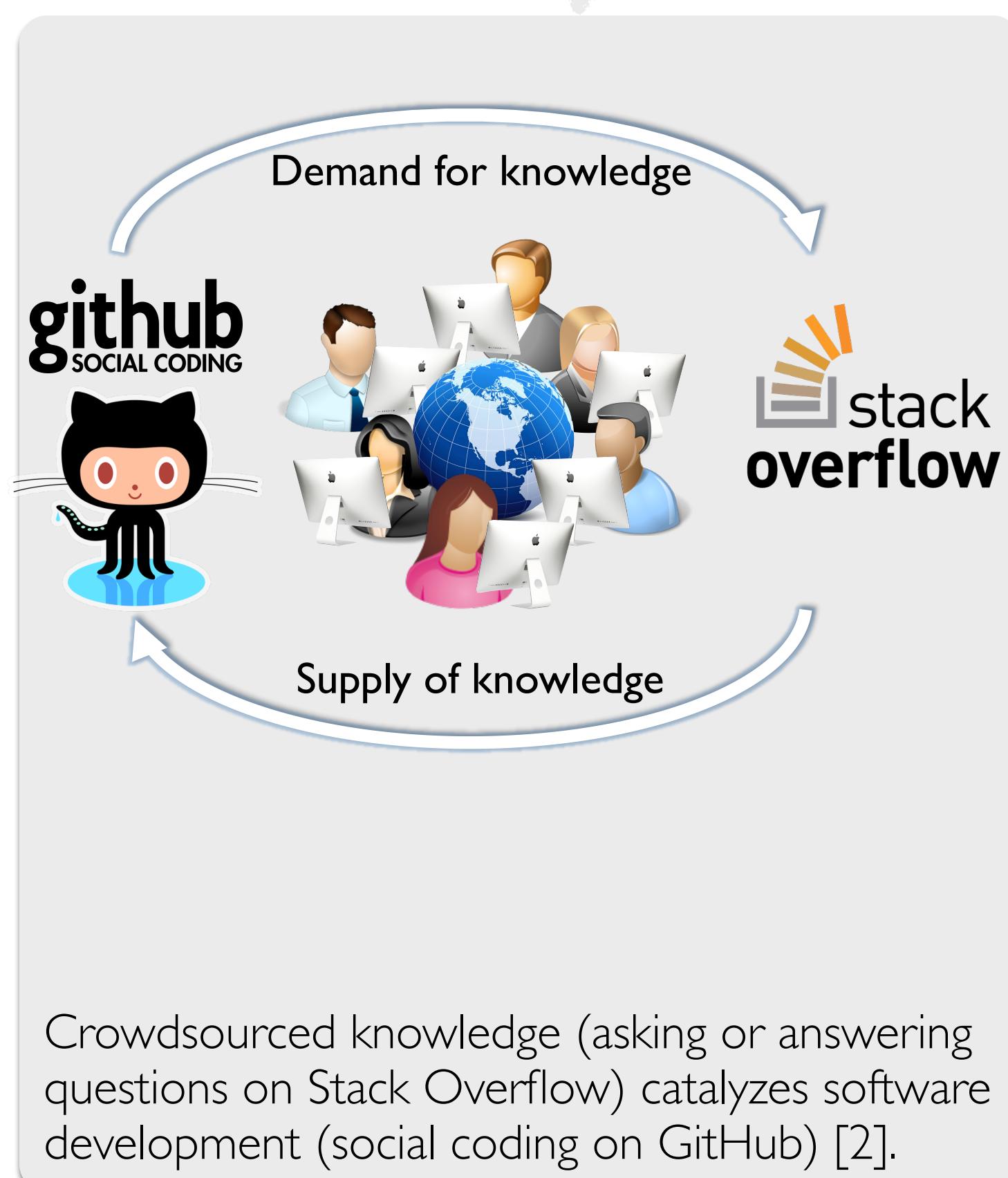
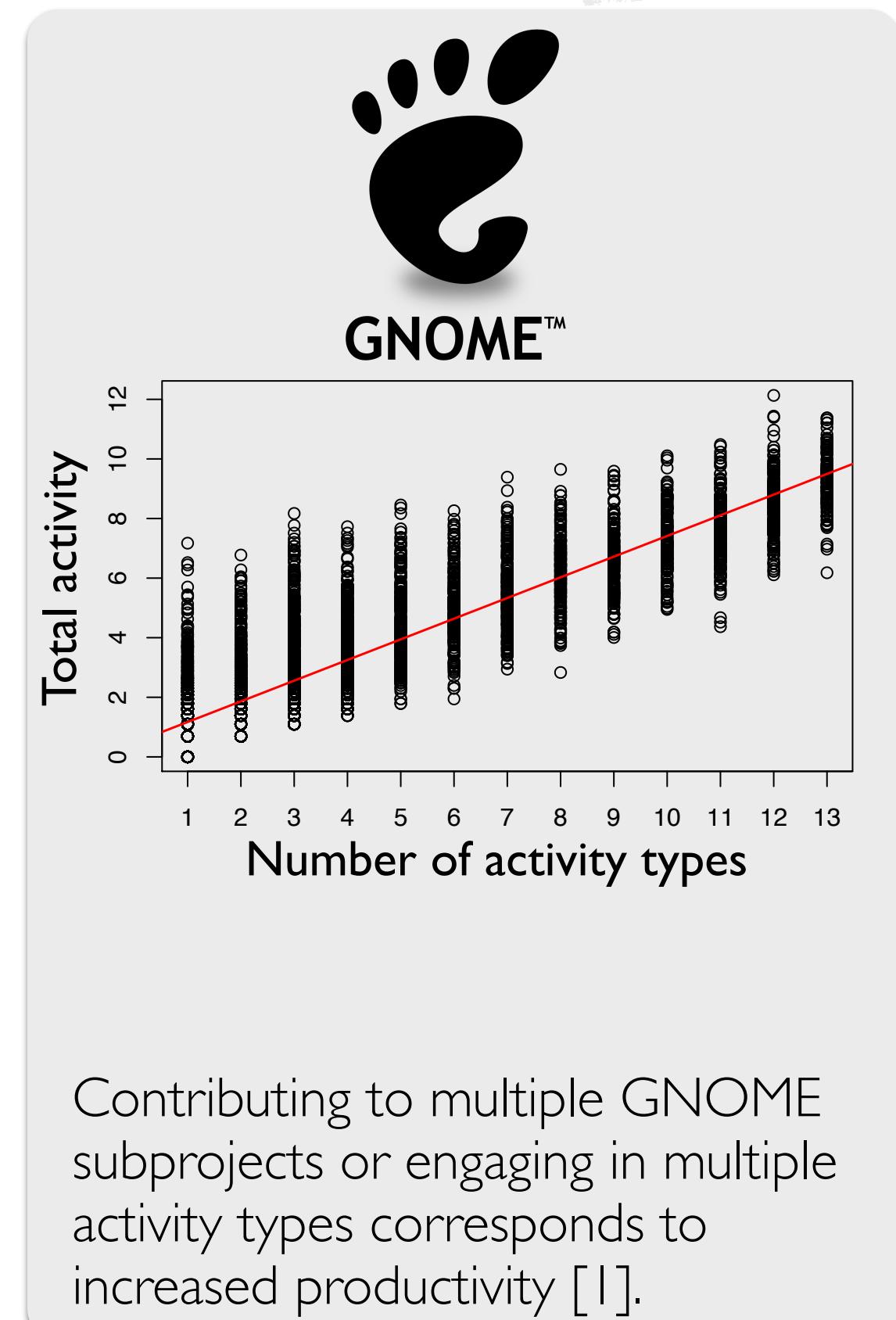


Alexander  
Serebrenik



Mark G.J. van  
den Brand

Different data sets, different measures, different statistical techniques...



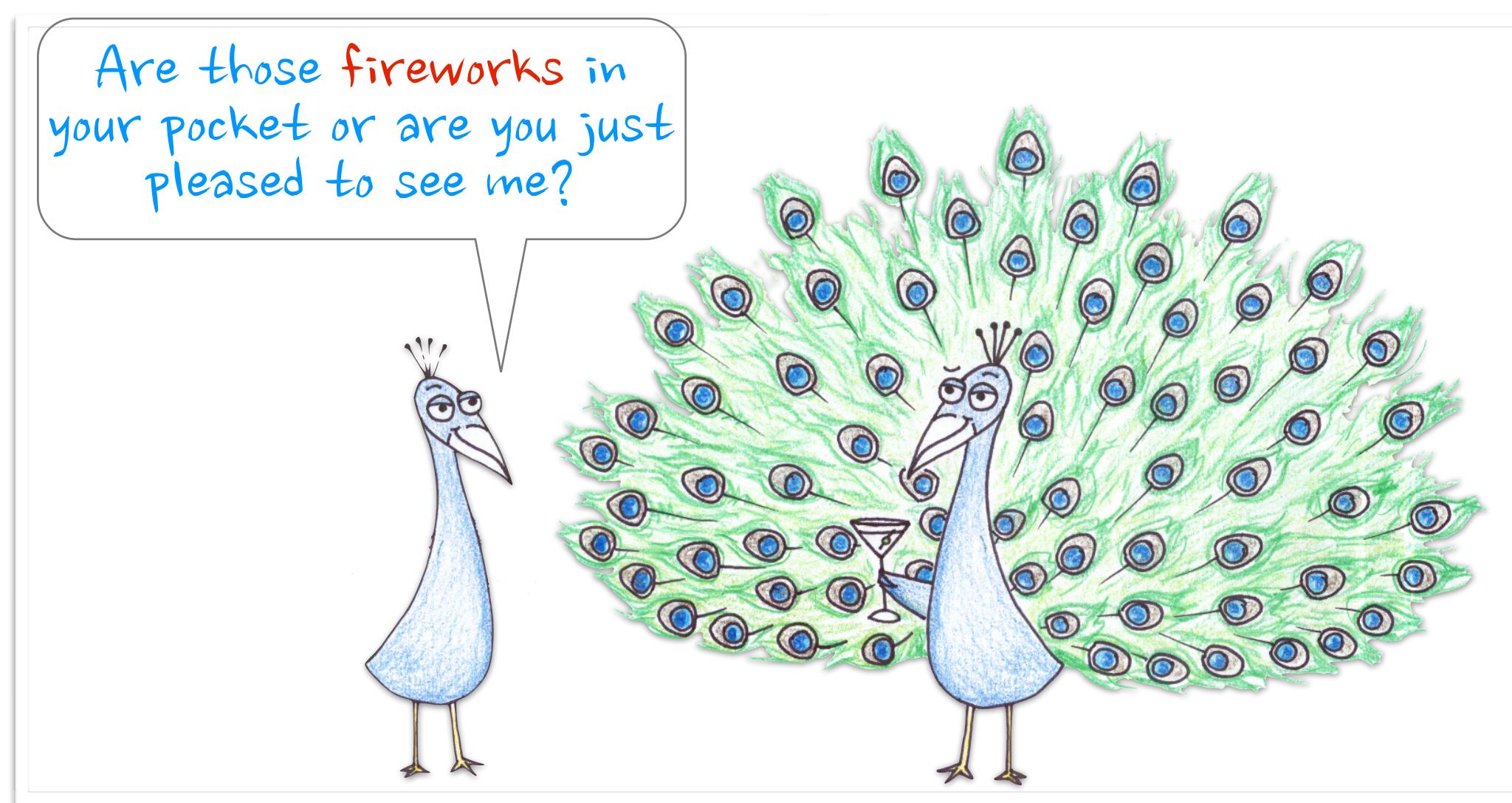
Contributing to multiple GNOME subprojects or engaging in multiple activity types corresponds to increased productivity [1].

Crowdsourced knowledge (asking or answering questions on Stack Overflow) catalyzes software development (social coding on GitHub) [2].

Being publicly rewarded with reputation points and badges results in faster answers on Q&A platforms than on traditional mailing lists for experts active on both [3].

...the same conclusion:

**The more things you do, the more things you can do!**  
Those who engage in multiple communities or participate in multiple projects are typically the most active / productive from each community.



Why?

**The fitter you are, the more you signal!**

Career concerns or desire for peer recognition make the developers "signal" their fitness. More knowledgeable developers signal more.

[1] Bogdan Vasilescu, Alexander Serebrenik, Mathieu Goeminne, Tom Mens. **On the variation and specialisation of workload: A case study of the Gnome ecosystem community.** Empirical Software Engineering, 2013.

[2] Bogdan Vasilescu, Alexander Serebrenik, Prem Devanbu, Vladimir Filkov. **How social Q&A sites are changing knowledge sharing in open source software communities.** 17th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2014).

[3] Bogdan Vasilescu, Vladimir Filkov, Alexander Serebrenik. **StackOverflow and GitHub : Associations between software development and crowdsourced knowledge.** 2013 ASE/IEEE International Conference on Social Computing (SocialCom 2013).