

How should we measure the relationship between code quality and software sustainability?

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Software sustainability

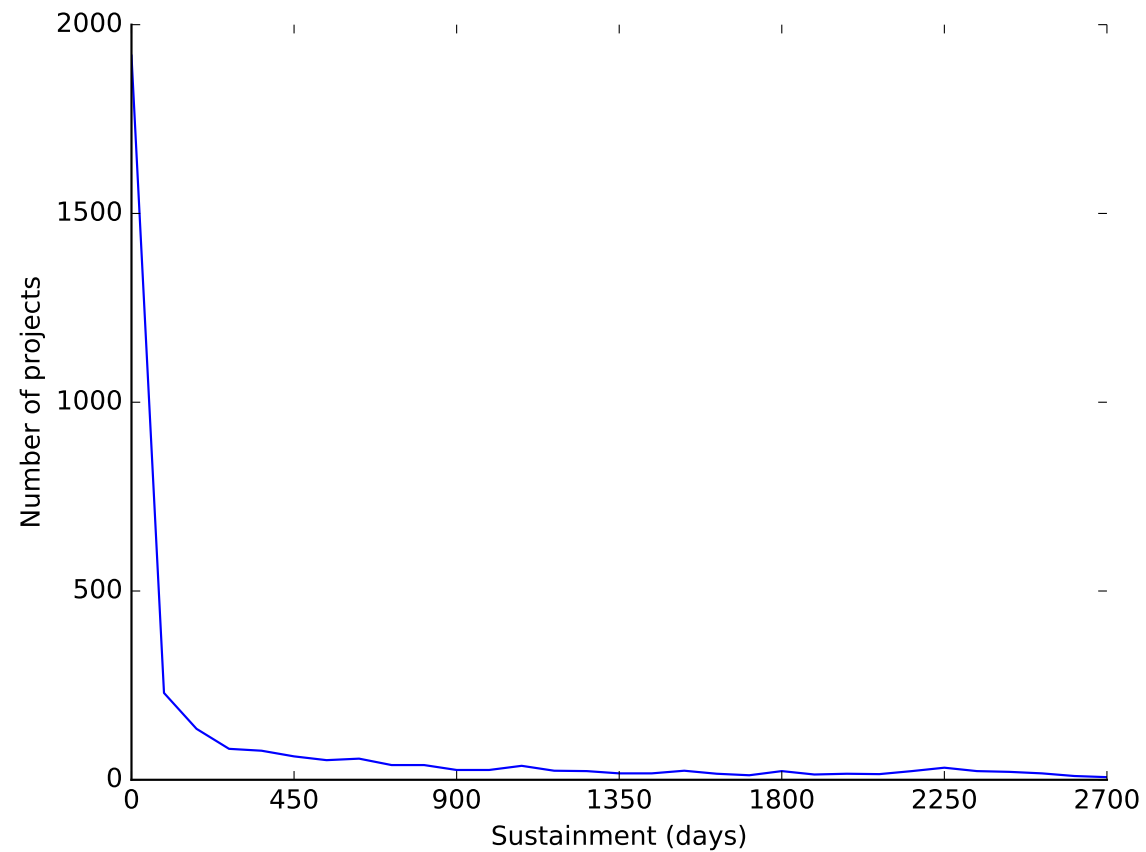
- Proposed as a non-functional requirement¹
 - How can we ensure it is satisfied?
- We're trying to work out what it entails
 - Asking developers²
 - Analysing projects

¹Venters et al. (2014) <http://openresearchsoftware.metajnl.com/articles/10.5334/jors.ao/>

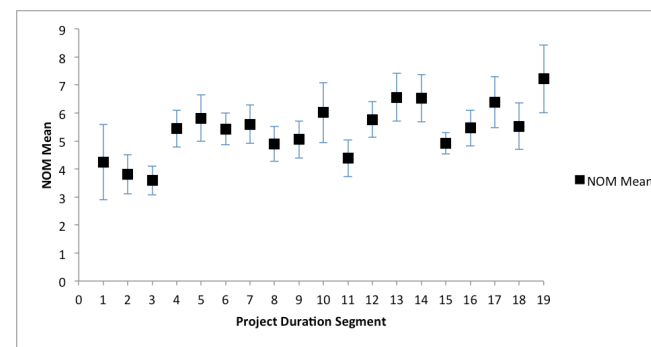
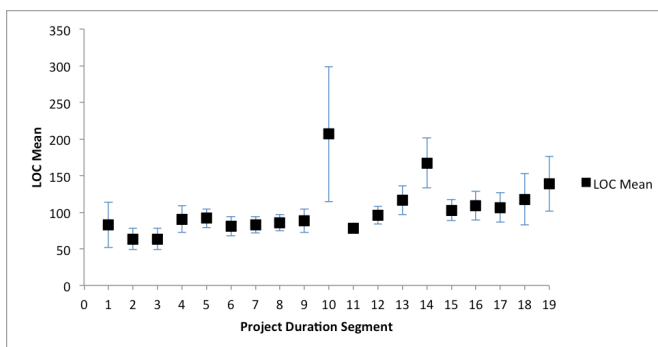
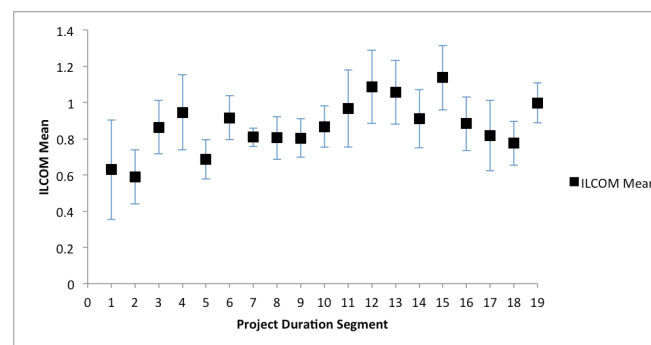
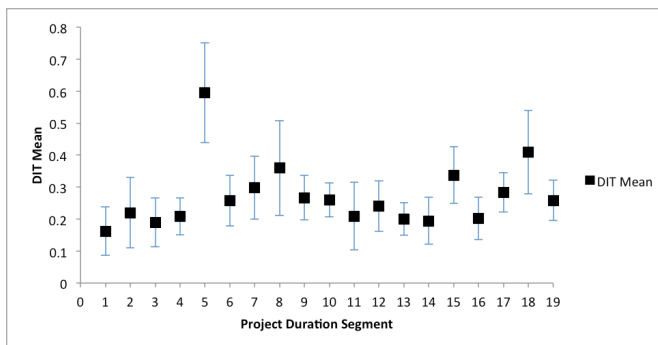
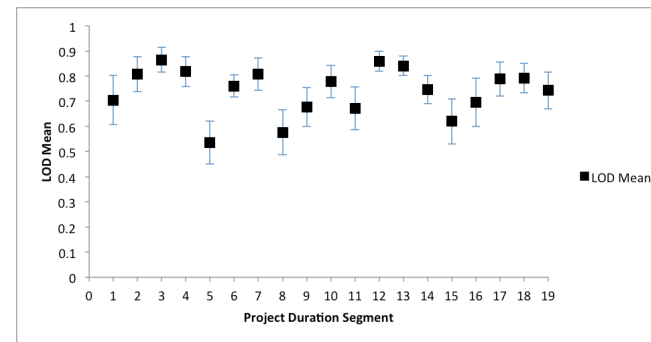
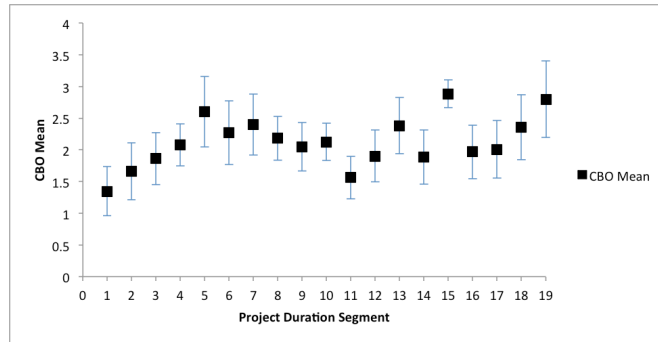
²De Souza et al. (2014) <http://dx.doi.org/10.6084/m9.figshare.1111925>

Software sustainment

- $S = t_{last_commit} - t_{initial_commit}$



Do projects that are sustained for longer have higher quality code?



Conclusion

- Code quality is high across the board
 - It may still be a factor in sustainability, but this study doesn't pick that up
 - Projects died for other reasons