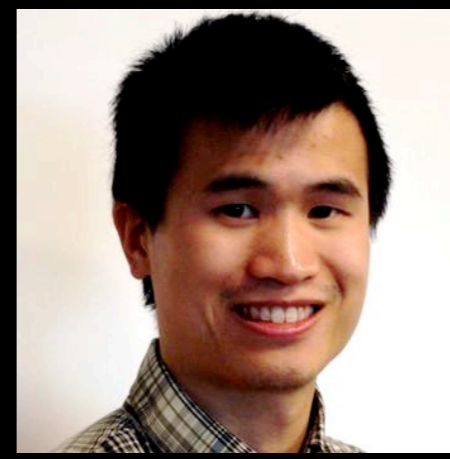




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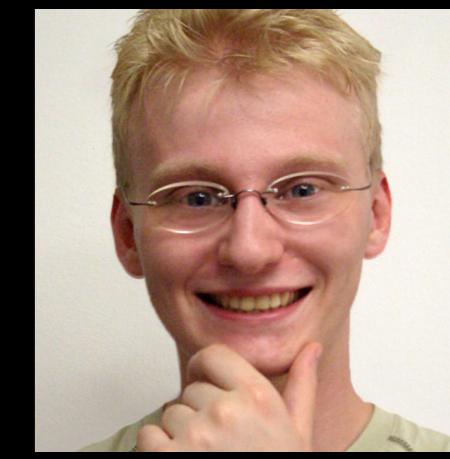
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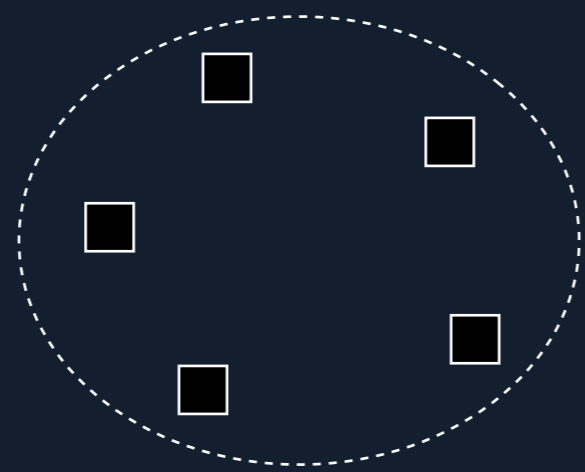
Jazz Research at SEGAL

A Social Network Approach to Task-Based Communication

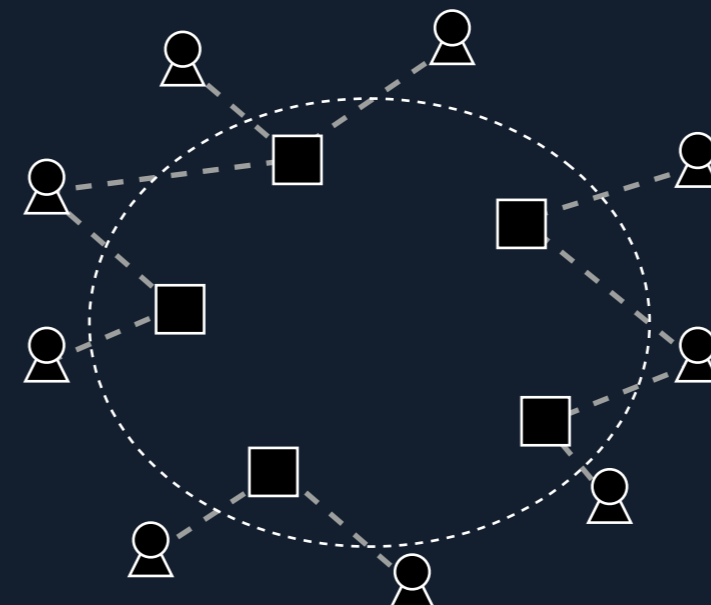
1 Choose Research Focus



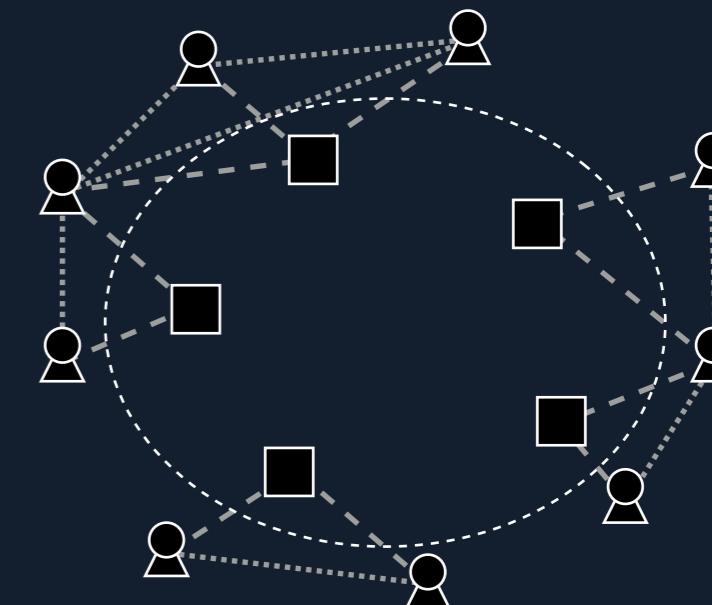
2 Identify Work Artifacts Related to the Research Focus



3 Identify People Discussing Work Artifacts

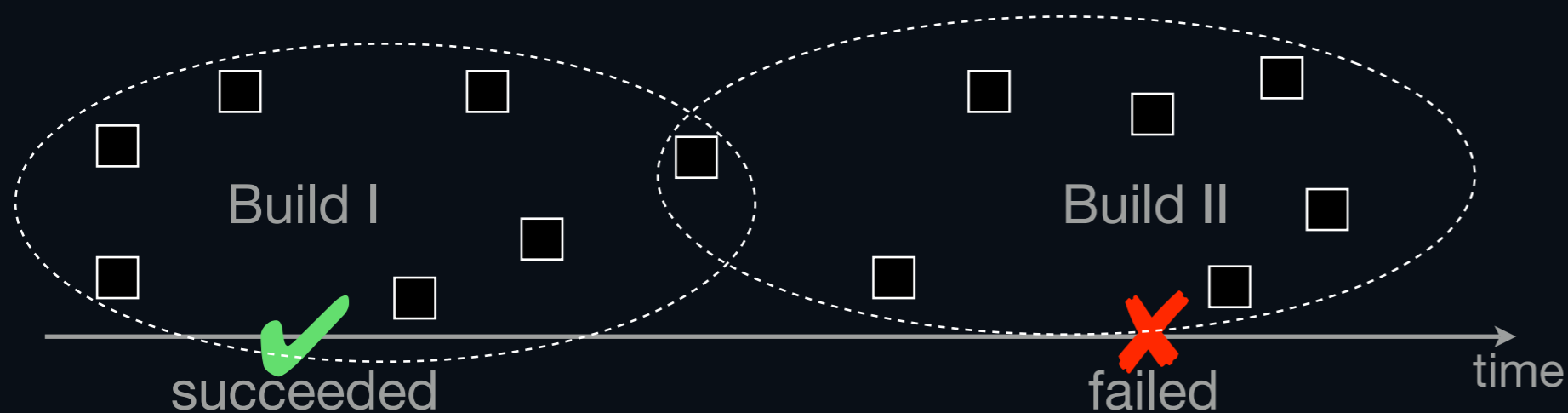


4 Connect People Discussing the Same Work Artifacts

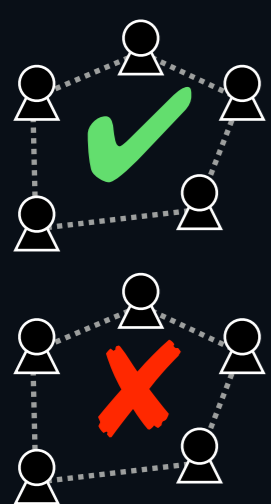


T. Wolf, A. Schröter, D. Damian, L. Panjer, and T. Nguyen. Mining Task-Based Social Networks to Explore Collaboration in Software Teams. In IEEE Software Special Issue on Mining Software Repositories 2009.

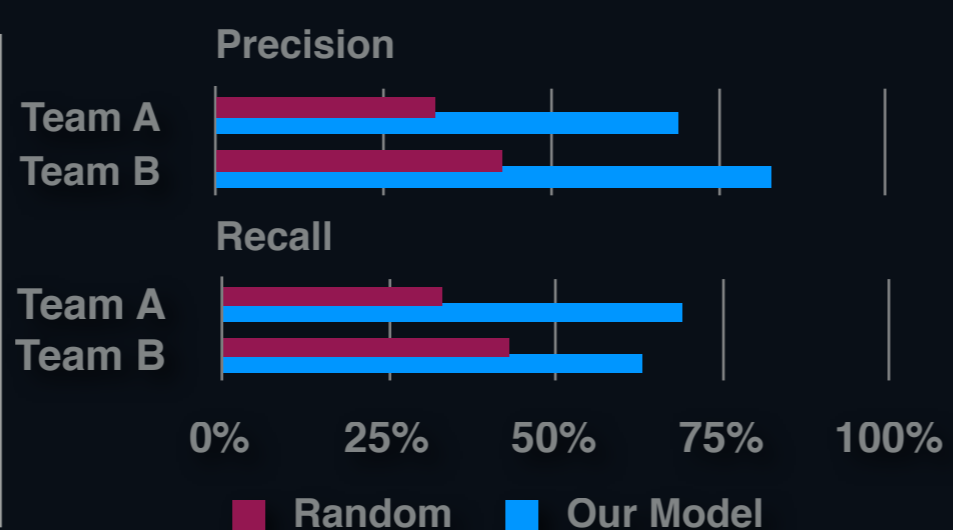
Previous projects



We constructed Social Networks around Builds by following the Work Items related to a build.



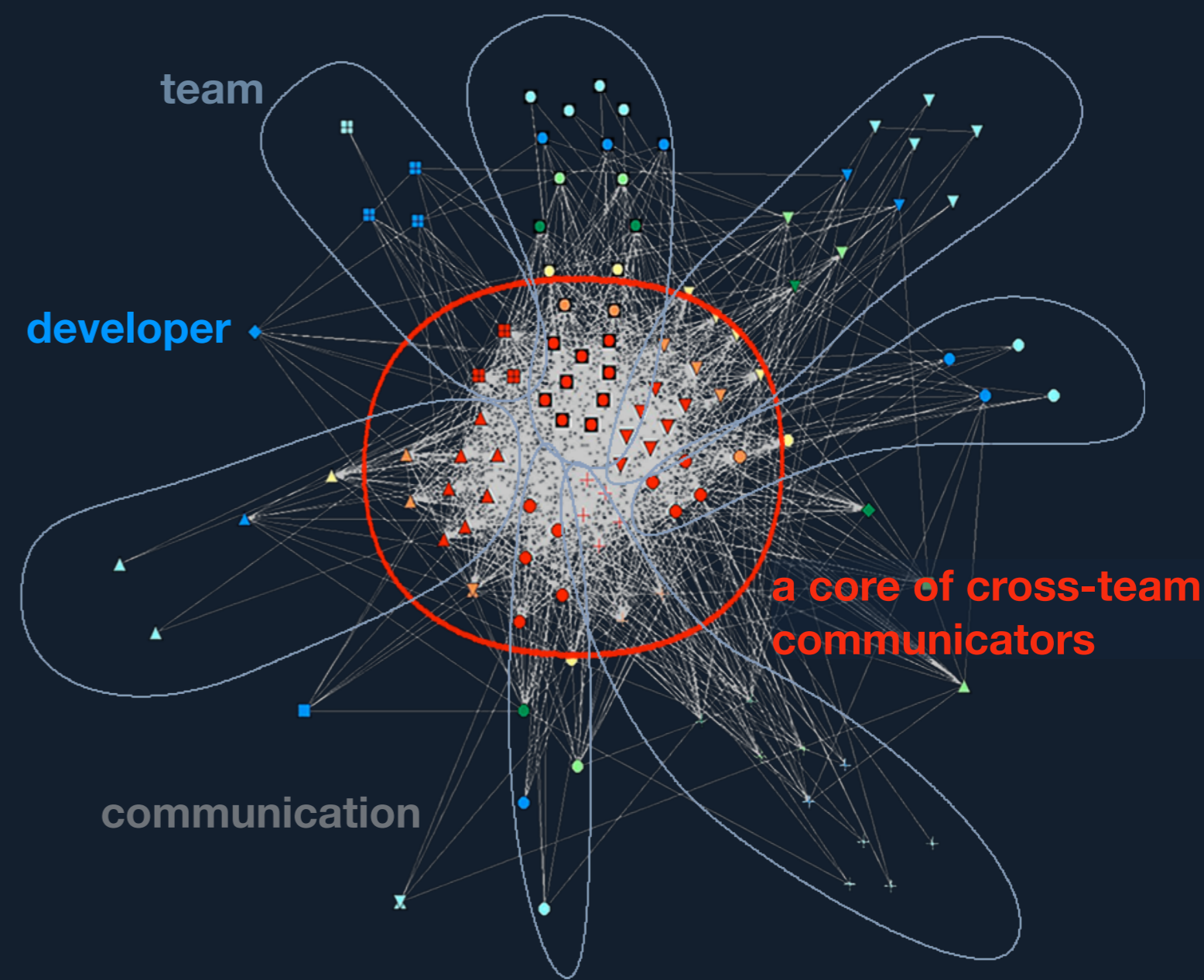
predict



We use those social networks around builds to predict the outcome of future builds and thus show that communication influences software quality.

T. Wolf, A. Schröter, T. Nguyen, and D. Damian. Predicting Build Failures using Social Network Analysis on Developer Communication. To appear in the Proceedings of the 31st International Conference on Software Engineering (ICSE'09)

Analyzing Communication



The Jazz development team exhibits a project-wide communication structure with a core of developers (red circle) which seems to effectively mediate geographically distributed collaboration.

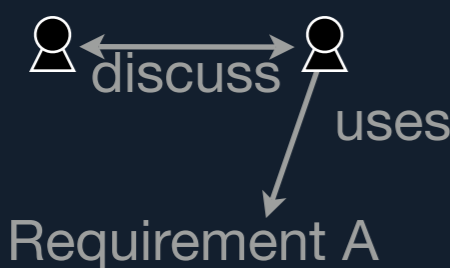
T. Wolf, T. Nguyen, and D. Damian. Does distance still matter?. In the Journal of Software Process: Improvement and Practice 2008
T. Nguyen, T. Wolf, and D. Damian. Global software development and delay: Does distance still matter?. In Proceedings of the 3rd International Conference on Global Software Engineering (ICGSE'08). IEEE Computer Society, August 2008

Current projects

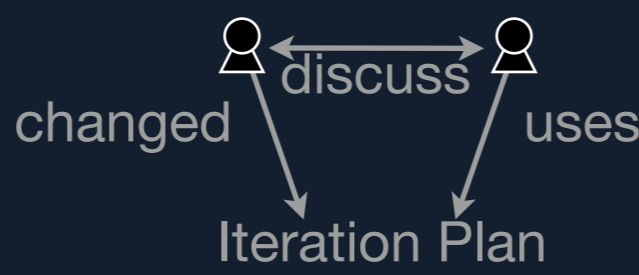
Should they discuss that change?



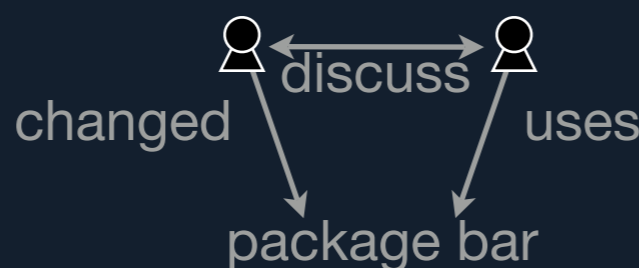
Should they make this change?



Should they discuss this change more?



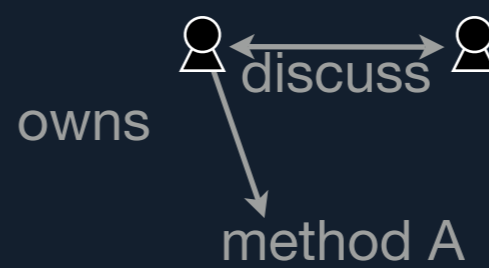
Should they make additional changes?



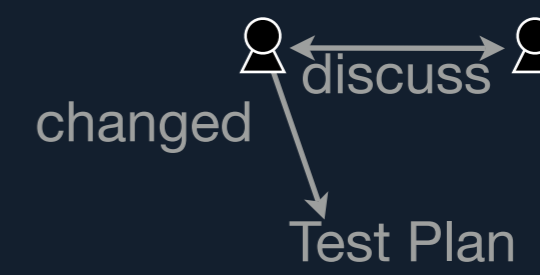
Should he seek advise?



Should he use his method?



Should he get more advise?



Should he use more of his methods?



A. Schröter, I. Kwan, L. Panjer, and D. Damian. Chat to Succeed. In Proceedings of the 1st International Workshop on Recommendation Systems for Software Engineering (RSSE'08) collocated with the 16th International Symposium on Foundations of Software Engineering 2008.

Jazz Innovation Award '08