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

For more information, visit www.segal.uvic.ca or contact schadr@uvic.ca

Previous projects

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

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

An 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.

Current projects

Recommendation Actions to Prevent Failures

Should they discuss that change?

- changed
- uses
- foo.bar(int x)

Should they discuss this change more?

- changed
- uses
- foo.bar(int x)

Should they make this change?

- changed
- uses
- foo.bar(int x)

Should they make additional changes?

- changed
- uses
- foo.bar(int x)

Should they use his method?

- uses
- Class foo

Should he use more of his methods?

- uses
- Class foo

Should he seek advice?

- uses
- Method A

Should he get more advice?

- uses
- Method A