



Introduction

Effective collaboration during Requirements Engineering is essential for project success and includes

- ▶ the *discussion and negotiation of requirements* with different stakeholders,
- ▶ *deriving, assigning, and scheduling tasks* and subtasks from these requirements.

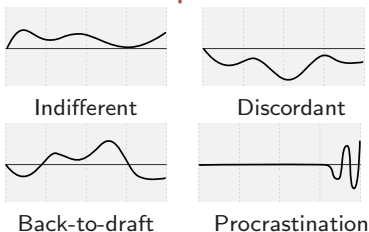
Problem:

- ▶ Existing requirements management tools offer limited support to analyzing discussions around requirements.
- ▶ Practitioners rely on a combination of collaboration tools such as email and issue-trackers.
- ▶ No overview of the **state of the requirements-related discussion**.
- ▶ Lost opportunity in leveraging the wealth of requirements-related communication data available in projects.

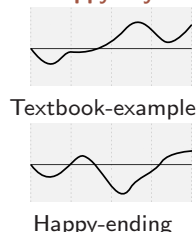
Solution

We analyze requirements-driven communication: The ability to automatically detect requirements clarification in this communication (by using machine learning) allows us to identify **patterns of requirements clarification**.

Suspicious:

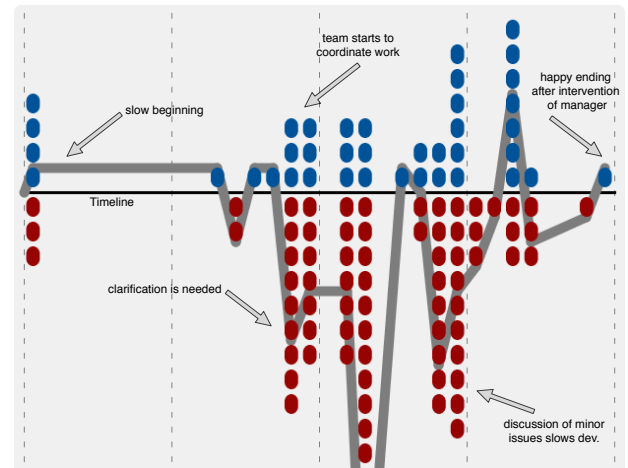


Happy day:



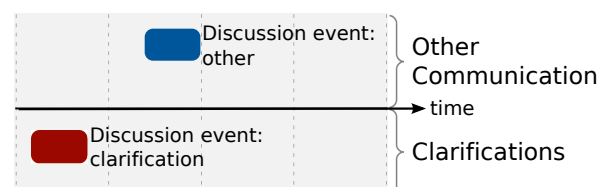
Example

Analyzing the content of requirements-related discussion to allow managers **to identify problematic requirements**.



Example trajectory of the discussion related to a user story in a large, globally distributed software project.

Legend



Voices from Industry

IBM RTC, VIATeC

Are these trajectories useful?

"[They...] allow me to find the ones I should focus on."

"I need to know who talks there."

Most valuable before and after feature-complete:

"You shouldn't clarify things anymore, then."

Find out how your project can benefit from this

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