IR++:

- 1. IR
- 2. NLP
- 3. Contextual
- 4. Ontology
- 5. Code Analysis
- 6. MSR + SLP
- 7. Modelling

Why?

- 1. Lightweight Techniques
- 2. Ease of use
- 3. Some NL similarity
- 4. More skewed distributions

Problems

- 1. Traceability (Email -> Src)
- 2. Stakeholder Language
- 3. IR inappropriateness (Lack of SE knowledge)
- 4. Leverage for bug fixing
- 5. Informal Documentation -----> Alignment (in technique section)
- 6. Bug -> Src
- 7. IR Parameters
- 8. Identifier grammers
- 9. Partial Code

Techniques:

- 1. Code -> Text Context
- 2. TF-IDF
- 3. NLP
- 4. Alignment
- 5. LDA, LSI, etc.
- 6. NLP Grammars
- 7. Segmentation
- 8. Language Models
- 9. Corpus+Context (API+Security Policy)

Activity Idea:

- 1. Markup and bug report
- 2. Markup function
- 3. Challenge list
- 4. Email

Challenges:

1. Context modelling