The University of Texas at Austin

# Associating Natural Language Comment and Source Code Entities

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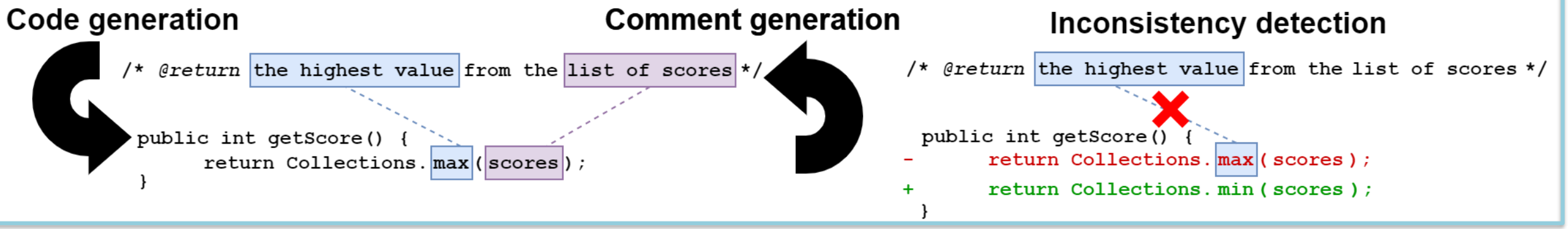
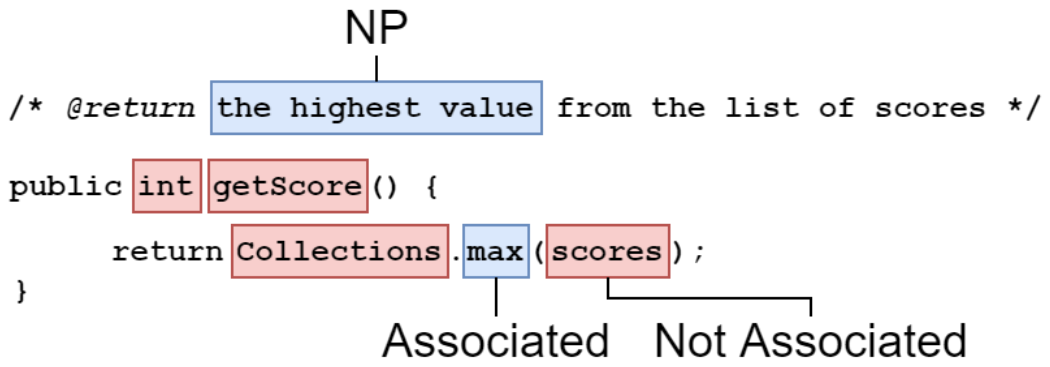
**Motivation:** Learning to relate comment and code elements is critical to automated systems for generating code and comments and detecting inconsistent code and comments.




**Task:** Given a noun phrase (NP) in a comment, we classify the relationship between the NP and each candidate code token in the corresponding method as either associated or not associated.




Code and data available at: http://bit.ly/NLCodeAssociations

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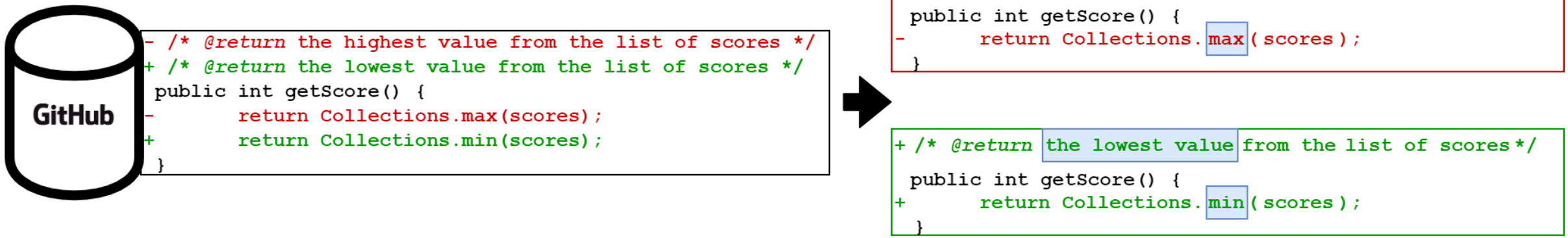
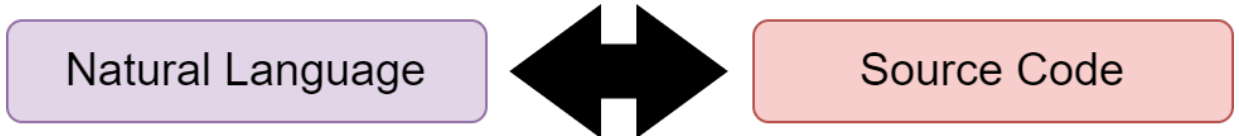
## Challenge #1: Obtaining labeled data

Noisy supervision: Mining simultaneous code/comment updates from GitHub commits




## Challenge #2: Reasoning across two distinct language representations

Salient features: Capturing characteristics of code, comments, and the relationship between them

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