The Opus Research Group

Identifying Design Problems with Code Smell Agglomerations

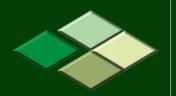
Graph approcah

Benedicte Agbachi, Eduardo Fernandes, and Alessandro Garcia

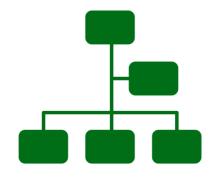




About Graph-based



The Graph-based

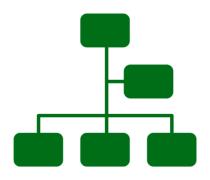


Visualizing code smell agglomerations using graph notion

Available in an online form



Features of Graph-based



The graphic visualization

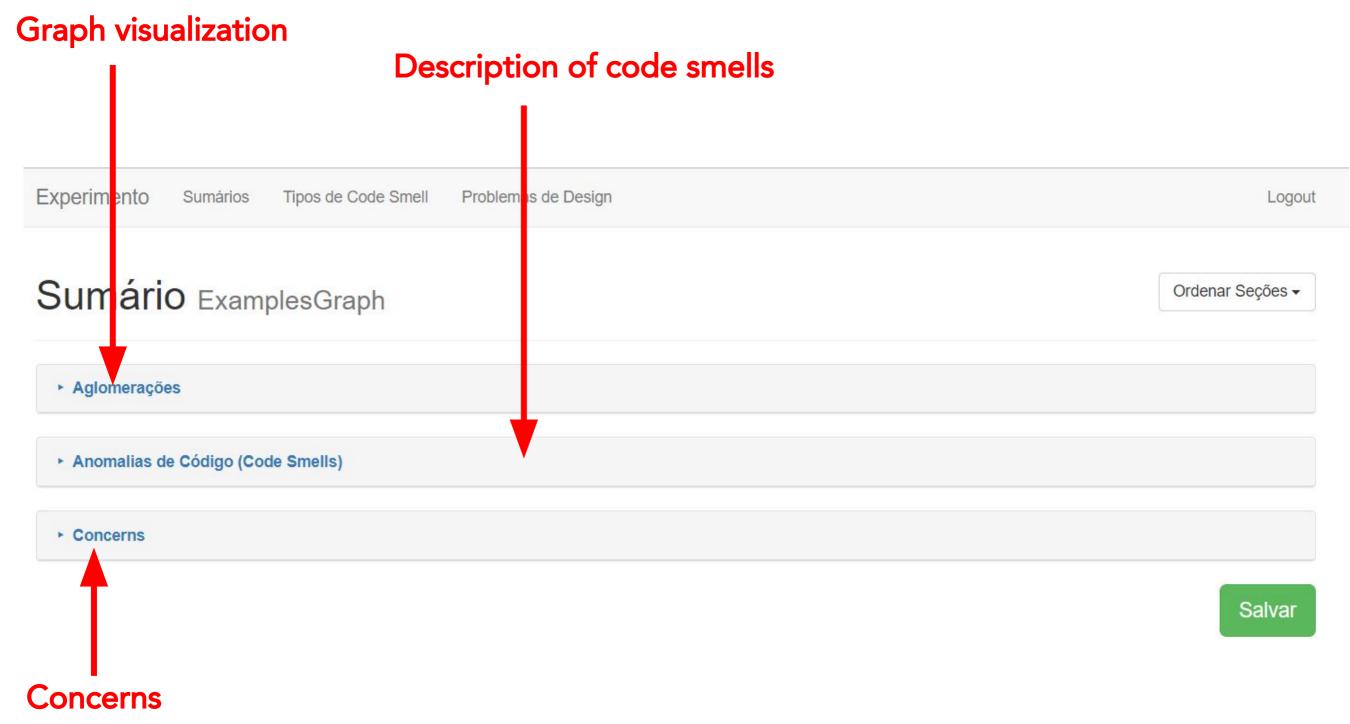
+ description of code smells

+ description of concerns



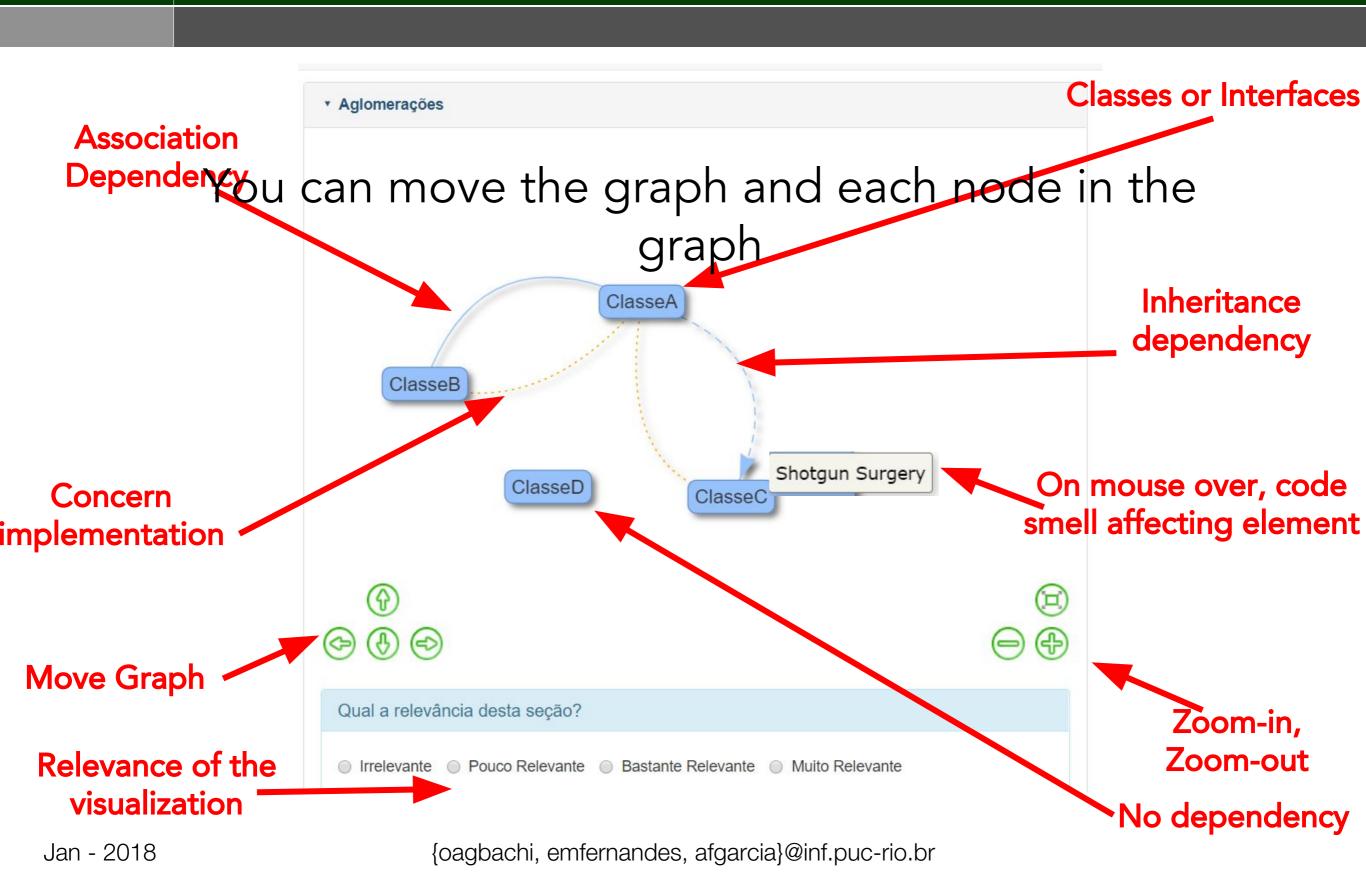
Jan - 2018

Graph-based main screen



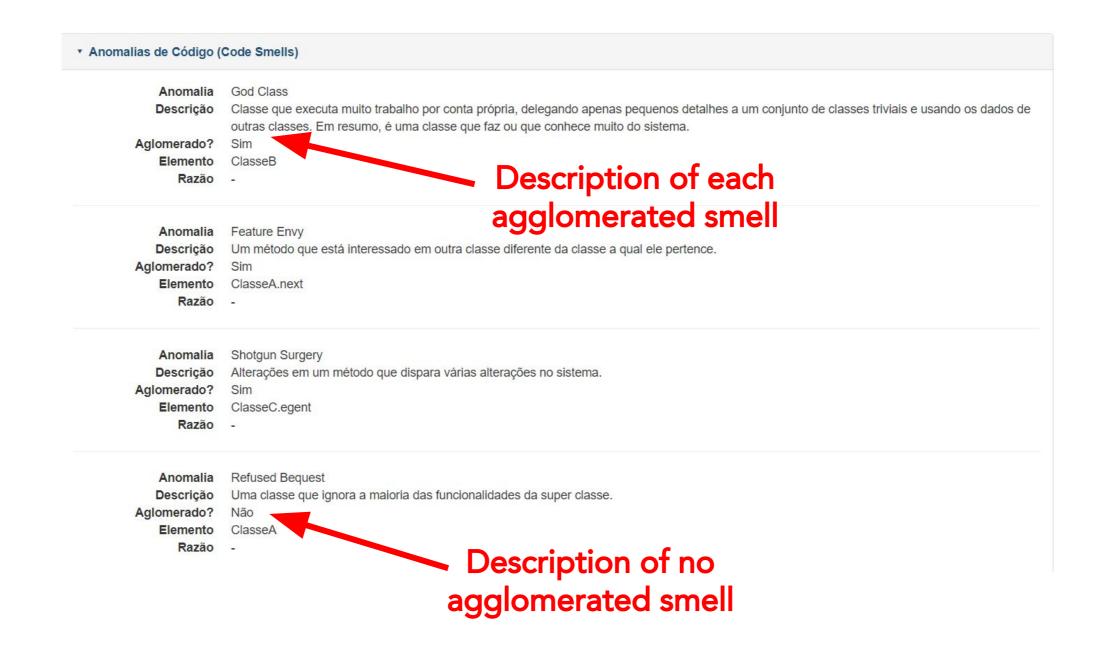


Agglomerations





Code smells tab





Concerns Tab

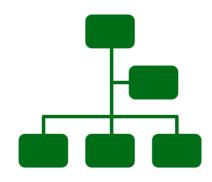
Concerns	
Princípio	Descrição
Concern Principal	O principal concern (funcionalidade) implementado na aglomeração.
	Razão: Classes que implementam o concern principal: -ClasseA -ClasseB
Concern Secundário	Concern secundário que também é implementado na classe.
	Razão: Concern Secundário 1: [ClasseC] Concern Secundário 2: [ClasseB, ClasseA]



About the Experiment with Graph-based

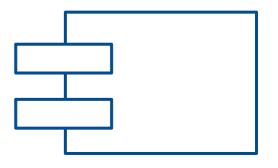


Main objective



Reason about pre-selected code smell agglomerations

Identify (or not) design problems with the agglomerations





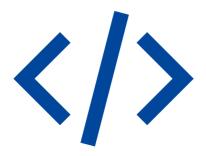
In case you identify a design problem...



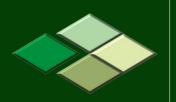
Briefly describe it



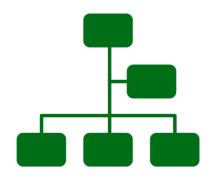
List the visualization elements that helped identifying it



List the **code elements** involved in the design problem

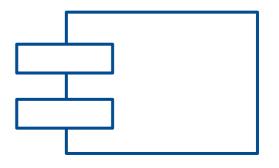


Final considerations



You will have **90 minutes** to finish the experiment

Questions? Please ask the experiment instructor



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