A Tool to Visualize the Structure of a Codebase Using Information Foraging Theory Design Patterns

Final Report | Team Postal | Group #38

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Abstract: Developer tools are often complex pieces of software. Gathering and manipulating useful information for a programmer can often be a slow and costly process. By implementing Information Foraging Theory design patterns in the creation of these tools, the information collected may be more useful or produced faster. Information Foraging Theory is the theory and math behind the choices people make to maximize the value of the information they find versus the cost of getting that information. The aim of this project is to develop a tool that will act as a proof of concept to this idea and increase developer efficiency. Through the implementation of multiple IFT design patterns, the Postal team will create a developer tool that helps enforce and maintain code structure.