Leveraging Software Bots to Enhance Developers' Collaboration in Online Programming Communities

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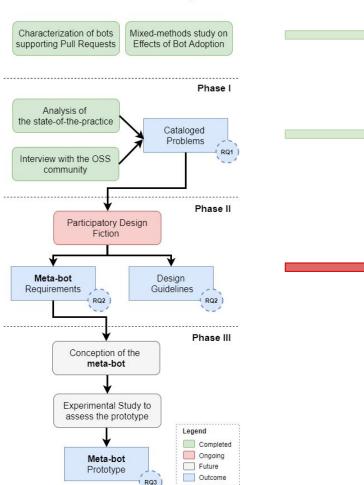
Software Bots are applications that are integrated into the pull requests

An interface between human and tools

New voices in the pull request conversation

Update dependencies #21 11 Open actions-bot wants to merge 1 commit into master from update-dependencies Conversation 0 Commits 1 Checks 4 Files changed 2 Conversation 0 Commits 1 Checks 4 Files changed 2 Collaborator ... Dependency updates Auto-generated by create-pull-request Collaborator ... Collaborator

Preliminary Studies



Bots perform many different tasks and can be **disruptive** to the community

A central problem: bot behaviors are perceived as noise

Employing **Design Fiction** to capture the developers' vision of bots' capabilities