Live Hole Filling by Direct Manipulation

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Palettes... [Omar et al. 2017]

1 INTRODUCTION
Palettes...

2 EXAMPLES
2.1 Boolean
Checkbox

2.2 Matrix
Simple example

2.3 Grade Cutoffs
Uses liveness more obviously

2.4 Table
Uses type reflection

2.5 Pixel Art
Cool example

2.6 Regex
Similar to Graphite paper, can cite the empirical study we did there

2.7 Forms
Show off composition + mention full-screening stuff

3 DEFINING PALETTES
3.1 Background: Elm architecture
3.2 GUIs with Typed Holes
3.3 Palette-Specific Actions?
3.4 Reasoning Principles
3.5 Deriving Palettes from Type Definitions?
4 FORMAL SYSTEM
...

5 RELATED WORK
Graphite, Relit, projectional editors, notebooks / Mathematica,

6 DISCUSSION

REFERENCES

Cyrus Omar, Ian Voysey, Michael Hilton, Jonathan Aldrich, and Matthew Hammer. 2017. Hazelnut: A Bidirectionally Typed Structure Editor Calculus. In *Principles of Programming Languages*. https://arxiv.org/abs/1607.04180