

Amsterdam University of Applied Sciences

Poster: Live Domain-Specific Languages

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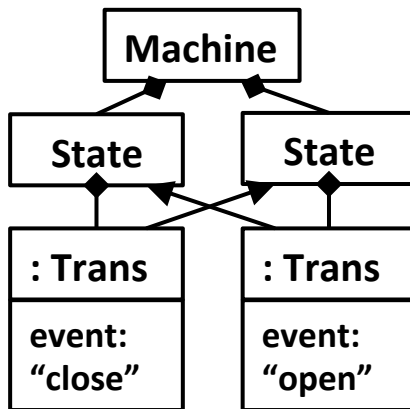
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Live Domain-Specific Languages

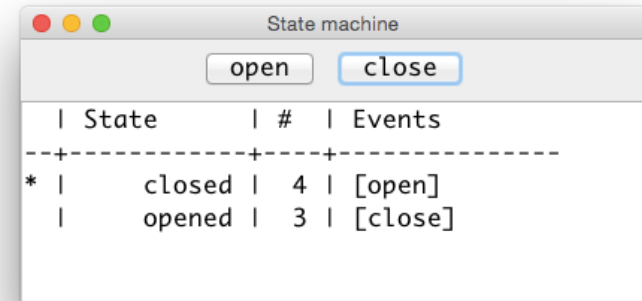
State Machine Visual & Textual Definition



```

machine doors
state closed
  open => opened
state opened
  close => closed
end
  
```

State Machine Run-Time



| State | # | Events |
|----------|---|---------|
| * closed | 4 | [open] |
| opened | 3 | [close] |

Goal: Raise productivity of non-programmer experts with visual programming languages that give constant (live) feedback about code changes.

Problem: Live languages require migrating run-time state with code changes.

Approach: Provide a reusable framework utilizing semantic deltas for designing and constructing stateful visual programming languages.

References

- Tijs van der Storm, Semantic Deltas for Live DSL Environments, in LIVE, 2013.
- R. van Rozen and T. van der Storm. Origin Tracking + Text Differencing = Textual Model Differencing. In ICMT, 2015.

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