

# Demo: AlgoVer

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Interaction on:

- different levels of abstraction for interaction
- different representations of the same problem

Switch between levels and/or representations is necessary.

- program code
- specification
- proof representation/proof obligation
- proof guidance/interaction

Three different kinds of Interaction Concepts:

- auto-active
- point-and-click
- text-based

- interaction on different representations
- hidden dependencies between representations
- context change cognitively challenging for the user
- missing interaction possibilities on representations

An interactive program verification system that allows implementing and researching different interaction concepts:

- integration of different representations as views
- integration of different interaction concepts
- seamless transition between views

User interaction needs, depending on the context,

- (a) a focussed view on specific elements or
- (b) an overview of the bigger picture.

The user is ...

- 1 ... able to use appropriate view at all times
- 2 ... can easily switch views without losing focus
- 3 ... is able to determine the results of costly actions before executing them