

## Abstract

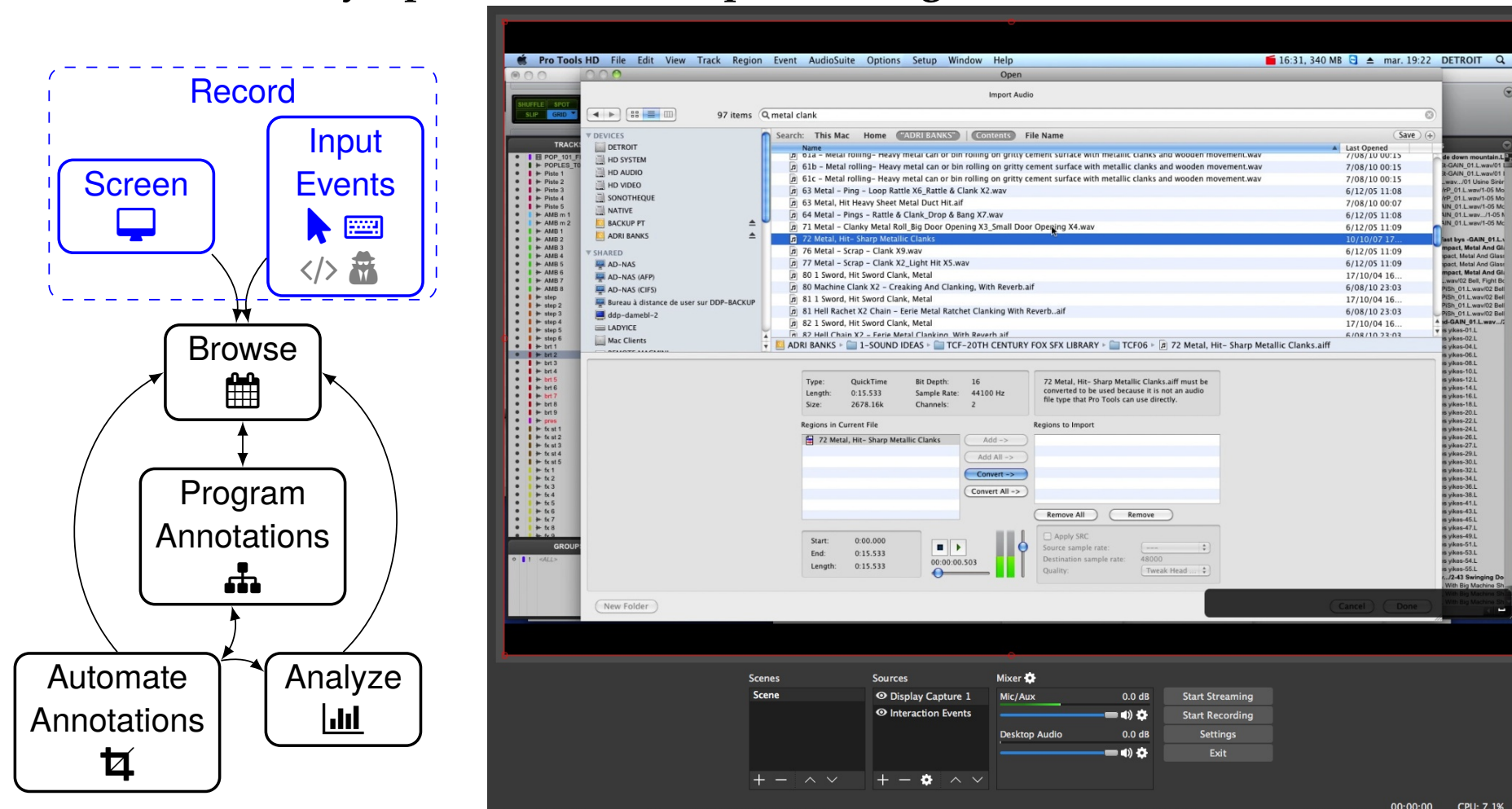
We propose InspectorWidget, an opensource application to track and analyze users' behaviors in interactive software. The key contributions of our application are:

- 1) it works with closed applications that do not provide source code nor scripting capabilities;
- 2) it covers the whole pipeline of software analysis from logging input events to visual statistics through browsing and programmable annotation;
- 3) it allows post-recording logging; it does not require programming skills.

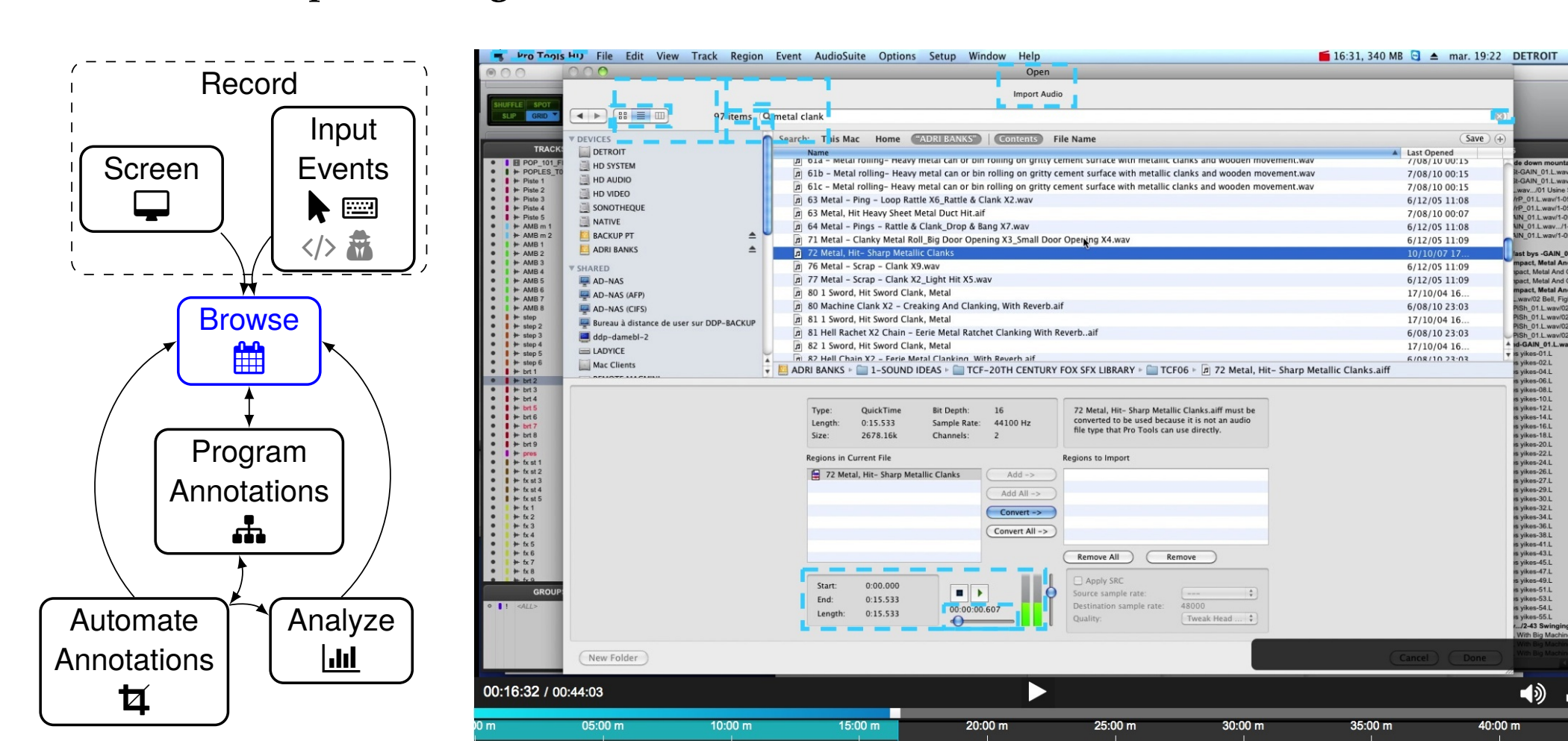
To achieve this, InspectorWidget combines low-level event logging (e.g. mouse and keyboard events) and high-level screen features (e.g. interface widgets) captured through computer vision techniques. InspectorWidget benefits end users, usability experts and HCI researchers.

## System

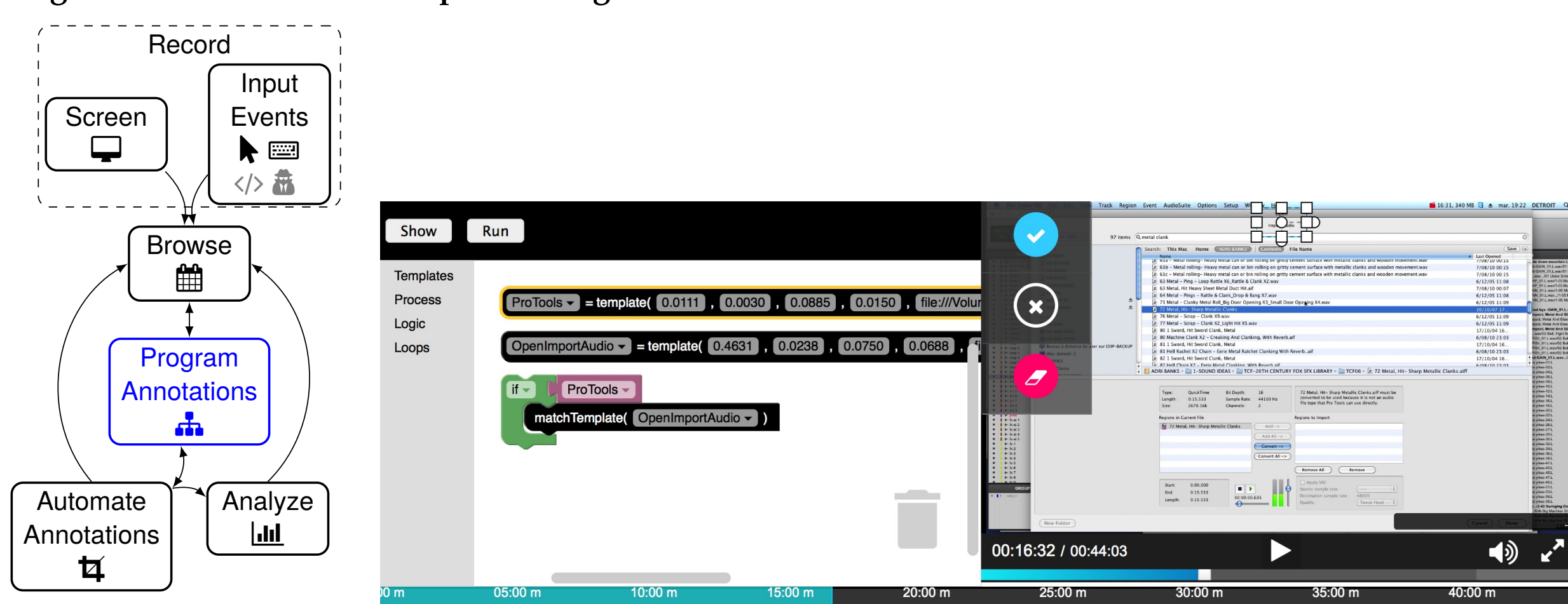
### Record (screen, keys, pointer) with InspectorWidget Collector



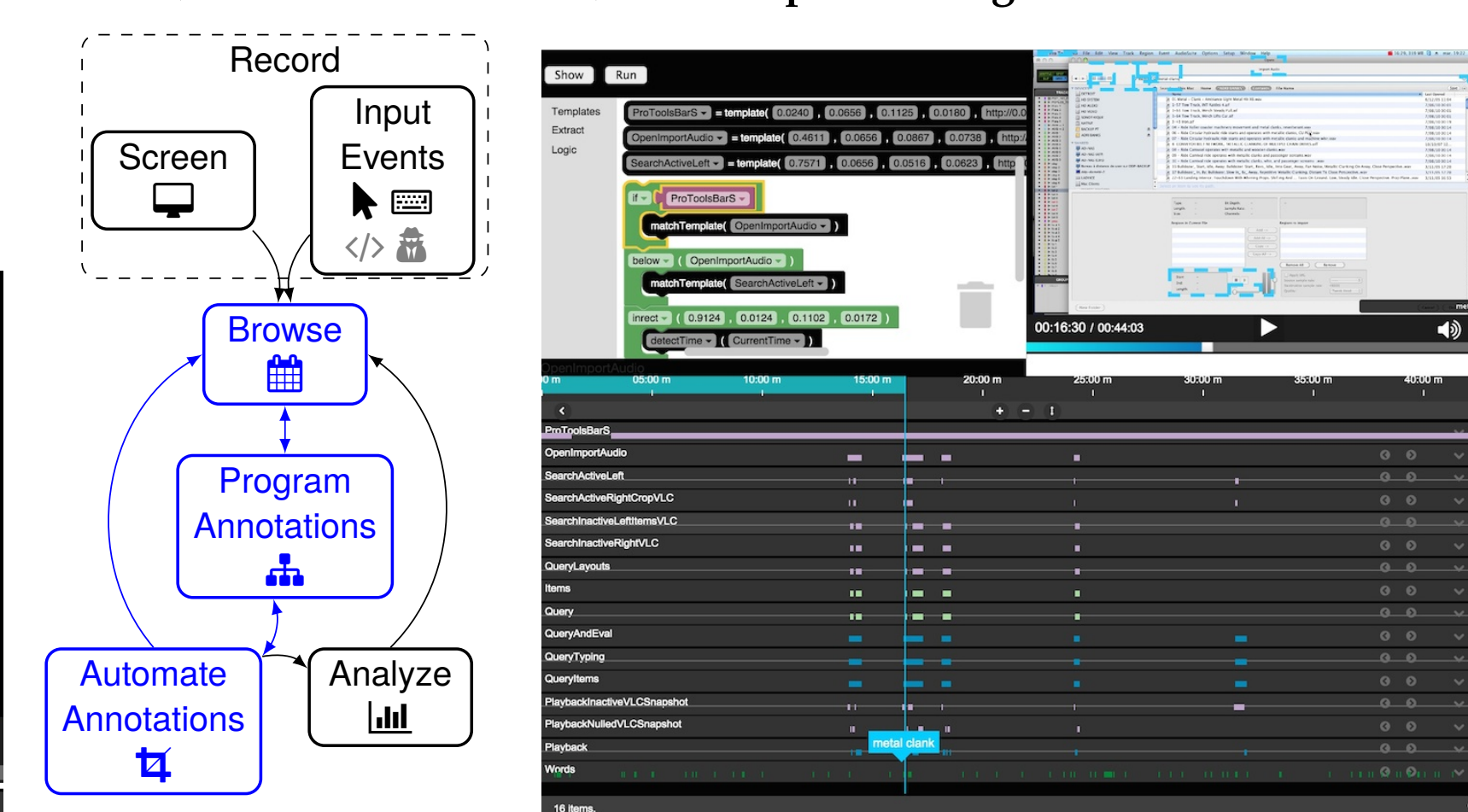
### Browse with InspectorWidget Iterator



### Program annotations with InspectorWidget Iterator



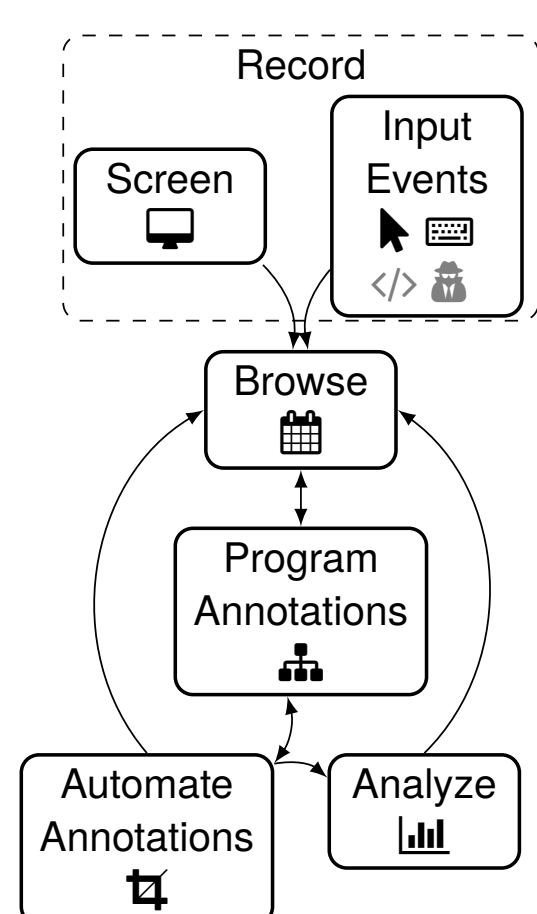
### Iterate (browse and annotate) with InspectorWidget Iterator



## Design Goals

- Monitor diverse applications
- Collect diverse data
- Automate diverse annotations
- Browse collected data
- Allow iterative monitoring
- Minimize programming

## Workflow



## Background

Name	Monitor diverse applications	Collect diverse data	Automate diverse annotations	Browse collected data	Allow iterative monitoring	Minimize programming requirements	Platforms	Release
AppMonitor							Windows	
Delta							Windows	
TechSmith Morae 3.3							Windows	
Patina							Windows	
Prefab							Windows	
Chronicle/Screencast							Windows	
Sikuli							Linux, Windows	
Waken							Linux, Windows	
InspectorWidget							Linux, Windows	

## Criteria

- Data types:
- Screencast
  - Keyboard
  - Mouse
  - Document Object Model
  - Accessibility
- Methods:
- Computer vision

- Platforms:
- Linux
  - OSX
  - Windows
- Distribution:
- Opensource
  - Free to download
  - Commercial support

## Acknowledgements

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## Download

<http://github.com/InspectorWidget>