

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 2, 2026

## Bonsai

RRID:SCR\_021512

Type: Tool

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### Proper Citation

Bonsai (RRID:SCR\_021512)

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### Resource Information

**URL:** <https://github.com/bonsai-rx/bonsai>

**Proper Citation:** Bonsai (RRID:SCR\_021512)

**Description:** Software tool as event based framework for processing and controlling data streams. Open source software tool as visual language for reactive programming.Used for composing reactive and asynchronous data streams coming from video cameras, microphones, electrophysiology systems or data acquisition boards.

**Resource Type:** data acquisition software, software application, data processing software, software resource

**Defining Citation:** [DOI:10.3389/fninf.2015.00007](https://doi.org/10.3389/fninf.2015.00007)

**Keywords:** Reactive programming visual language, composing reactive data streams, composing asynchronous data streams, video cameras data, microphones data, electrophysiology systems data, data acquisition boards, OpenBehavior

**Availability:** Free, Available for download, Freely Available

**Resource Name:** Bonsai

**Resource ID:** SCR\_021512

**Alternate URLs:** <https://edspace.american.edu/openbehavior/project/bonsai/>

**License:** MIT License

**Record Creation Time:** 20220129T080356+0000

**Record Last Update:** 20260801T190719+0000

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### Ratings and Alerts

No rating or validation information has been found for Bonsai.

No alerts have been found for Bonsai.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Bowler JC, et al. (2025) An Intranet of Things approach for adaptable control of behavioral and navigation-based experiments. eLife, 13.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. Neuron, 113(17), 2856.

Lodder B, et al. (2025) Absolute measurement of fast and slow neuronal signals with fluorescence lifetime photometry at high temporal resolution. Neuron.

Kamath T, et al. (2025) Hunger modulates exploration through suppression of dopamine signaling in the tail of the striatum. Neuron, 113(23), 4055.

Pierce AF, et al. (2024) Nucleus accumbens dopamine release reflects the selective nature of pair bonds. Current biology : CB, 34(3), 519.

Mendonça MD, et al. (2024) Dopamine neuron activity encodes the length of upcoming contralateral movement sequences. Current biology : CB, 34(5), 1034.

Yamanouchi HM, et al. (2023) Protocol to investigate the neural basis for copulation posture of Drosophila using a closed-loop real-time optogenetic system. STAR protocols, 4(4), 102623.

Amaro D, et al. (2021) Source identity shapes spatial preference in primary auditory cortex during active navigation. Current biology : CB, 31(17), 3875.