

Resource Summary Report

Generated by [ASWG](#) on Sep 19, 2026

Bonsai

RRID:SCR_021512

Type: Tool

Proper Citation

Bonsai (RRID:SCR_021512)

Resource Information

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

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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, data processing software, software application, 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: 20260912T195957+0000

Ratings and Alerts

No rating or validation information has been found for Bonsai.

No alerts have been found for Bonsai.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Goldschmidt D, et al. (2026) Recent experience and internal state shape local search strategies in flies. *Current biology* : CB, 36(7), 1605.

Mazo C, et al. (2026) Whisker-based spatial cognition in mice. *Current biology* : CB, 36(7), 1764.

Jeong M, et al. (2026) Distinct interneuronal dynamics selectively gate target-specific cortical projections in drug seeking. *Neuron*, 114(10), 1800.

Livrizzi G, et al. (2026) Top-down control of the descending pain modulatory system drives multimodal placebo analgesia. *Neuron*.

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.

Costa KM, et al. (2025) Dopamine and acetylcholine correlations in the nucleus accumbens depend on behavioral task states. *Current biology* : CB, 35(6), 1400.

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.