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- [License: OpenSim GUI](#)
- [License: OpenSim API](#)
- [License for Models, Examples, and Plug-Ins](#)
- [How to Acknowledge Us](#)
- [Additional Publications](#)

License: OpenSim GUI

The OpenSim Graphical User Interface (GUI) is open-source under the [Apache 2.0 license](#). Some dependencies have more restrictive licenses.

```
/* ----- *
 * OpenSim *
 * ----- *
 * OpenSim is a toolkit for musculoskeletal modeling and simulation, *
 * developed as an open source project by a worldwide community. Development *
 * and support is coordinated from Stanford University, with funding from the *
 * U.S. NIH and DARPA. See http://opensim.stanford.edu and the README file *
 * for more information including specific grant numbers. *
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 * ----- */
```

License: OpenSim API

The OpenSim Application Programming Interface (API) is fully open source and licensed under the [Apache 2.0 license](#):

```
/* ----- *
 *                               OpenSim *
 * ----- *
 * The OpenSim API is a toolkit for musculoskeletal modeling and simulation. *
 * See http://opensim.stanford.edu and the NOTICE file for more information. *
 * OpenSim is developed at Stanford University and supported by the US *
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 * ----- */
```

License for Models, Examples, and Plug-Ins

Models, examples and plugins retain their own custom licenses. Refer to each individual file for information.

How to Acknowledge Us

Acknowledging the OpenSim project helps us and helps you. It allows us to track our impact, which is essential for securing funding to improve the software and provide support to our users (you).

- Seth A, Hicks JL, Uchida TK, Habib A, Dembia CL, Dunne JJ, et al. (2018) OpenSim: Simulating musculoskeletal dynamics and neuromuscular control to study human and animal movement. PLoS Comput Biol 14(7): e1006223. <https://doi.org/10.1371/journal.pcbi.1006223>
- Delp SL, Anderson FC, Arnold AS, Loan P, Habib A, John CT, Guendelman E, Thelen DG. OpenSim: Open-source Software to Create and Analyze Dynamic Simulations of Movement. IEEE Transactions on Biomedical Engineering. (2007)
- For OpenSim Moco, please also cite: Dembia, C.L., Bianco, N.A., Falisse, A., Hicks, J.L., Delp, S.L. OpenSim Moco: Musculoskeletal optimal control. PLoS Computational Biology 16(12): e1008493.

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Additional Publications

For more publications about OpenSim see [Theory and Publications](#)