



Technology Offer

Max-Planck-Innovation GmbH
Amalienstr. 33
80799 Munich
Germany

Phone: +49 (89) 29 09 19 - 0
Fax: +49 (89) 29 09 19 - 99
info@max-planck-innovation.de
www.max-planck-innovation.de

PLAYFUL

Reactive Programming for Orchestrating Robotic Behavior

Contact:
Dr. Bernd Ctortecka
Tel.: +49 89 290919-20
ctortecka@max-planck-innovation.de

File no.: MI 0104-5603-BC-JK



Summary

Playful is a scripting language for orchestration of Python modules. Playful allows developers to both organize the logic of activation in reactive behaviour tree and setup sensory-motor couplings, making it especially useful for robotics

Feature highlights

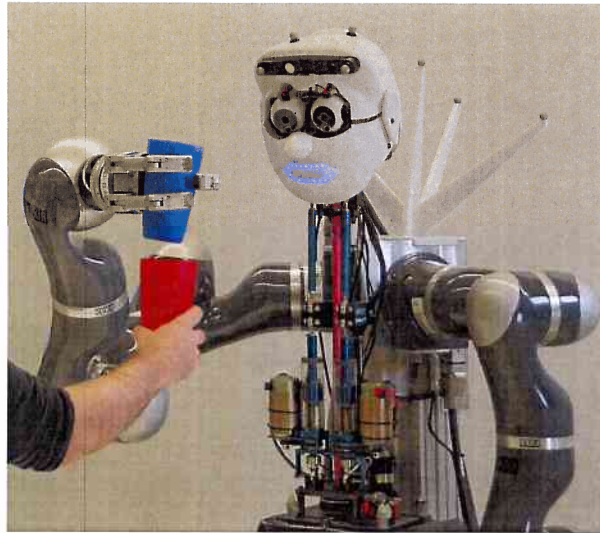
- mixed logic for specifying runtime activation of branches : conditional activation, prioritization / resource management, and state machines
- setup of sensory motor couplings via a dedicated scripting keyword ('targeting')

english

If you recently saw a hand, look at it.
Otherwise, if you recently saw a cup, look at it

targeting hand: look_at, while time_ago<1, priority of 2
targeting cup: look_at, while time_ago<1, priority of 1

playful



Targeted users

- owners of robot (commercial or custom-made), using a higher level python API for interfacing (note: the Robot Operating System, ROS, is suitable for creating such python API) who want to create complex dynamic robotic behaviour, typically for service robot
- manufacturer of service/social robots for the consumer markets, for developing demos and applications

Detailed descriptions

Visit <http://playful.is.tuebingen.mpg.de/> for link to academic papers, tutorials and documentations.

Ordering and pricing

Users from academia and from non-profit research institutes can obtain their license directly from Max Planck Institute for Intelligent Systems (www.playful.is.tuebingen.mpg.de).

Commercial users can choose between the following licensing schemes:

- Single license (1) : € 520,- plus VAT
- Two months evaluation license (2) : free
- Resale license (3) : on request

Remarks:

- (1) Commercial licenses are valid for one year (365 days) from the day of ordering. All updates within this period are included. Payments in US-\$ are welcome and will be based on the actual exchange rate EUR / US \$. A single commercial license allows only usage of a single instance of Playful at a time.
- (2) The evaluation license is identical to the site license but valid only for two months after initial ordering.
- (3) Licensing schemes allowing resale of Playful as part of software suit or commercial robot API is possible

Additional information

For technical questions, please contact: playful-support@tuebingen.mpg.de

For questions about ordering and licensing conditions, please contact:

Bernd Ctortecka
Max-Planck-Innovation
E-Mail: ctortecka@max-planck-innovation.de
Phone: +49-89-290919-20