NAO

RobotsLAB

Discover new horizons for education and research

Robotics represents the fast growing segment of advanced technology used in both education and research.

NAO Evolution is the ideal companion for teaching Robotics as well as STEM (Science, Technology, Engineering, and Math) topics to all levels, from secondary to higher education. By using NAO, teachers and researchers will appreciate and investigate multiple capabilities through this platform.

ATTRACTIVE PLATFORM • FULLY AND EASILY PROGRAMMABLE • HIGHLY INTERACTIVE • MULTIPLE SENSORS ONBOARD CONTROL • READY TO USE

With this companion everything is possible.

FOR TEACHERS

Increased student engagement, female and male alike
Enhanced effectiveness in reaching teaching goals
Cross-curriculum, project based, hands-on learning

FOR STUDENTS

Connecting theory with practice trough hands-on tests
Fostering team work, project management, problem solving
and communication skills
Inspiring a higher level of motivation and interest for technical
career paths

FOR RESEARCHERS

Ideal test platform for conceptual and theoretical models
Autonomous companion for hands-on experiments
Intuitive software environment with multi-language programming

Let your imagination run wild!

SECONDARY EDUCATION

Discover algorithmic, boolean logics basics
or and object programming
Encourage creativity by designing human-like animations
Understand control laws by analyzing sensors and joint data
Develop projects around NAO's interaction with its environment

HIGHER EDUCATION

Experience enhanced object and speech recognition capabilities
Explore advanced human-robot interaction
Create complex behaviors by mixing vision, motion and audio
Develop projects such as writing or playing manual games

RESEARCH

Research on human robot interaction / perception and cognition
Research on navigation, localization or locomotion
Create advanced modules by using APIs
Explore new avenues in other cognitive sciences
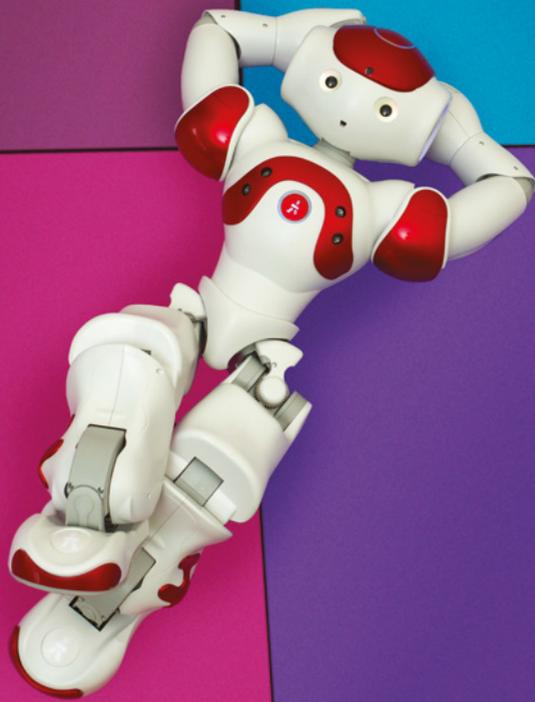
Program your NAO according to your needs
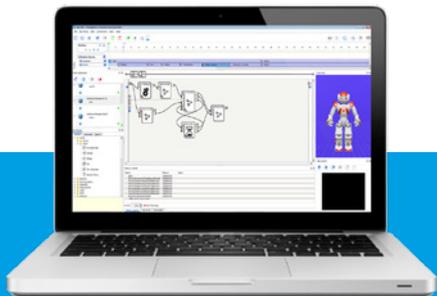
CHOREGRAPHE
Program impressive behaviors with a simple drag and drop of boxes or complex coding

An advanced software package that makes it intuitive to program NAO using a drag and drop interface, which simplifies the programming for new and advanced users alike.

SIMULATOR - WEBOTS
Testing your design in a 3D workspace

The perfect software to accompany your class or research: interfaced with Choregraphe, it is a safe place to test programs on NAO in a simulated environment before applying them in the real world.

CURRICULA
Experiment new ways to teach with NAO

A comprehensive textbook, made of modules and exercises, recognized as top introduction to robotics. A practical tool for different levels: from secondary school to higher education. A large range of topics as computer science, mathematics, mechanics, matrix, transformation, video, and more!

SDK
Develop incredible behaviors by embedding your modules

A user-friendly and well documented SDK which allows you to embed the modules you developed into your robot to give him more capabilities and intelligence. Our SDK is compatible with many robotics development platforms and languages (C++, Python, Java, MatLab,...)

MONITOR
Access high precision data from NAO's sensors and actuators

A desktop application allowing measurements and graphical data from NAO's sensors and joints. You can better analyze how NAO responds to different movements.

WIFI

TACTILE SENSORS

DIRECTIVE MICROPHONES

HD CAMERAS

LOUDSPEAKERS

INFRARED SENSORS

ULTRASONIC

PREHENSILE HANDS

FORCE SENSITIVE SENSORS

INERTIAL UNITS

LITHIUM BATTERY

METAL GEARS

BUMPERS

NAO, the complete platform for education and research needs

Recognizes clearly people and objects
Tracks perfectly using its whole body
Uses new extractors for people perception
Talks in an expressive and appropriate way
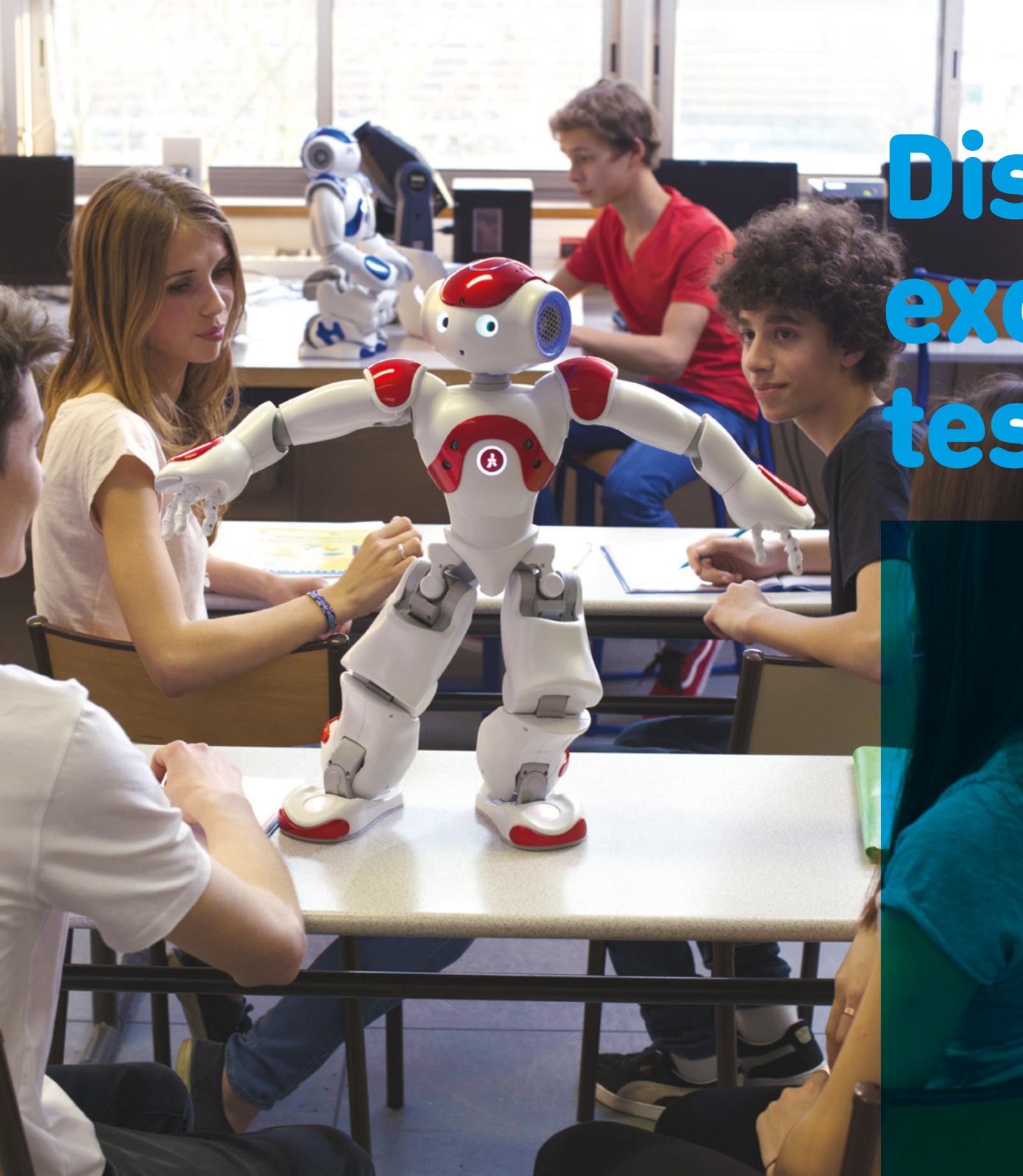
Discover exclusive testimonials

Making interactive robots for the well-being of humans

RobotsLAB

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