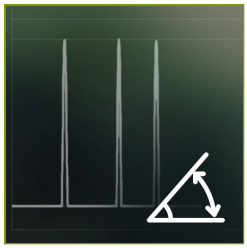
VAST.Rehab
REHABILITATION IN VIRTUAL REALITY

BASE PACK FOR VECTIS MINI

2025.1

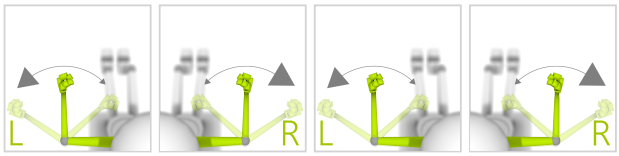


RANGE OF MOTION

ANGLES EVALUATION

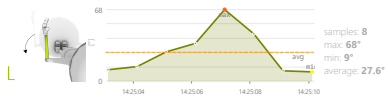
Measure and gently motivate to increase individual's range of motion in predefined movement patterns.

CONTROL MODES

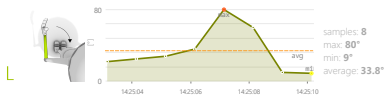


RESULTS

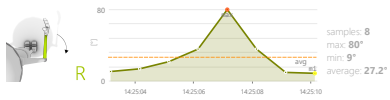
Angle | (L) shoulder | Lateral rotation



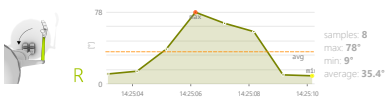
Angle | (L) shoulder | Medial rotation



Angle | (R) shoulder | Lateral rotation



Angle | (R) shoulder | Medial rotation



OBJECTIVES

- Range of motion examination

INSTRUCTION FOR PATIENT

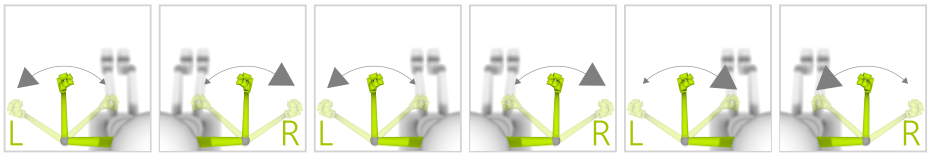
Try to achieve best result

SPEED

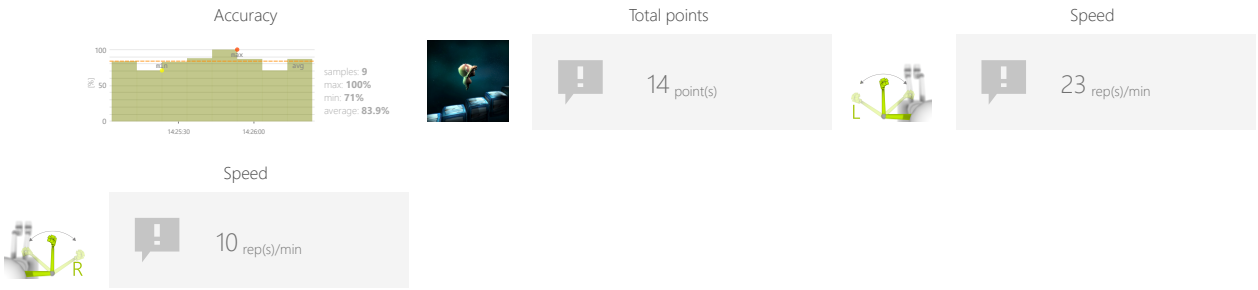
STAIRS

Measure number of repetitions of specific movement pattern an individual is able to perform within predefined time interval.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Max time per floor
- Number of stairs
- Pause length

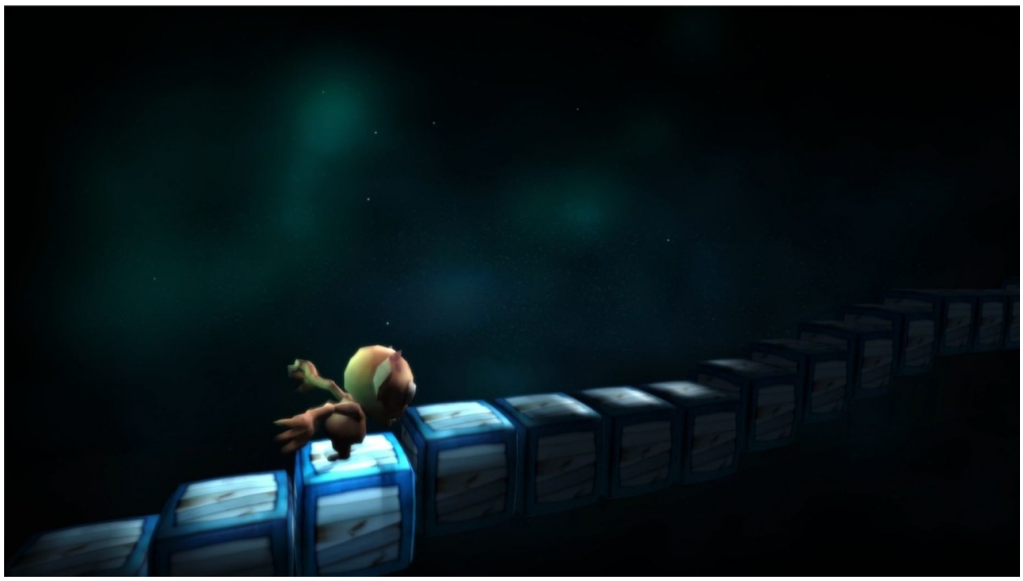
OBJECTIVES

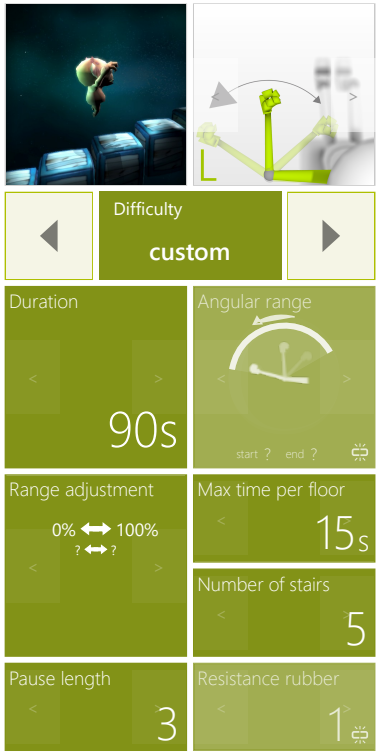
- Jumping
- Knees lifting
- Dynamics of planned movements

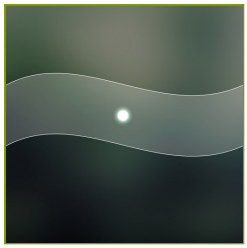
INSTRUCTION FOR PATIENT

Climb the stairs before they disappear.

SAMPLE SETTINGS





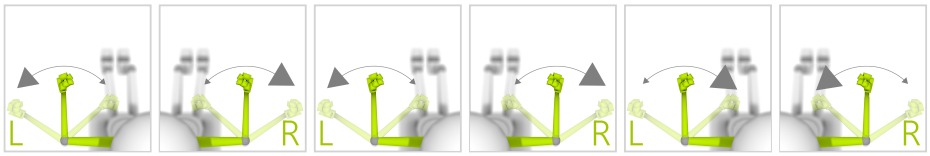


MOVEMENT PRECISION

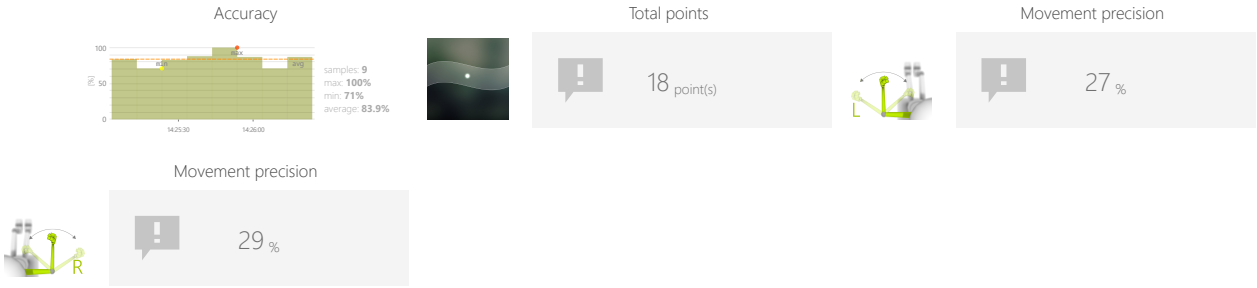
GRAPH

Measure and train individual's skills to perform specific movement patterns with predefined speed and range.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Graph shape (sinus or square, amplitude, border, etc.)
- Direction
- Task duration
- Torque range
- Range adjustment
- Angle

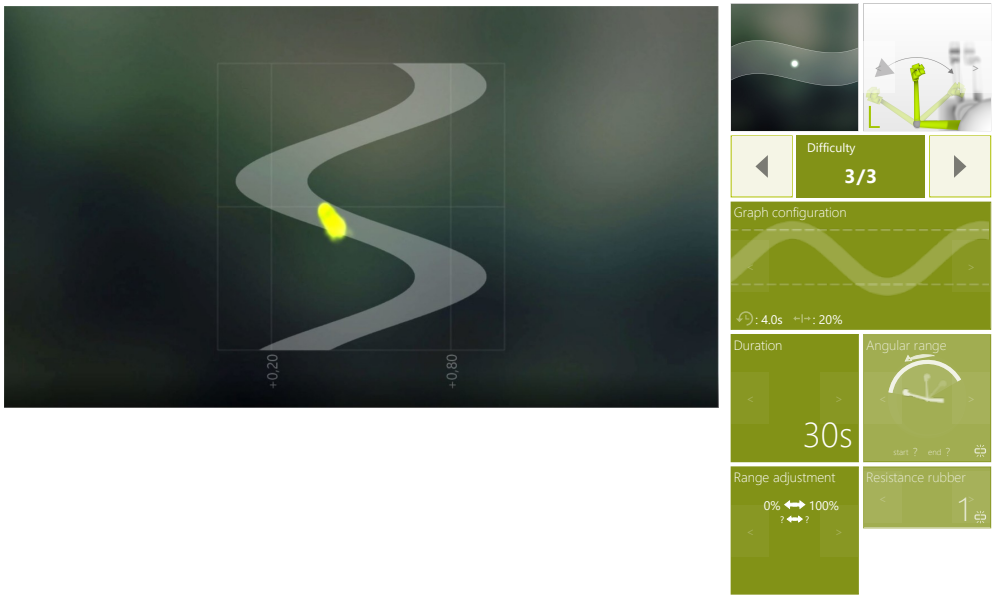
OBJECTIVES

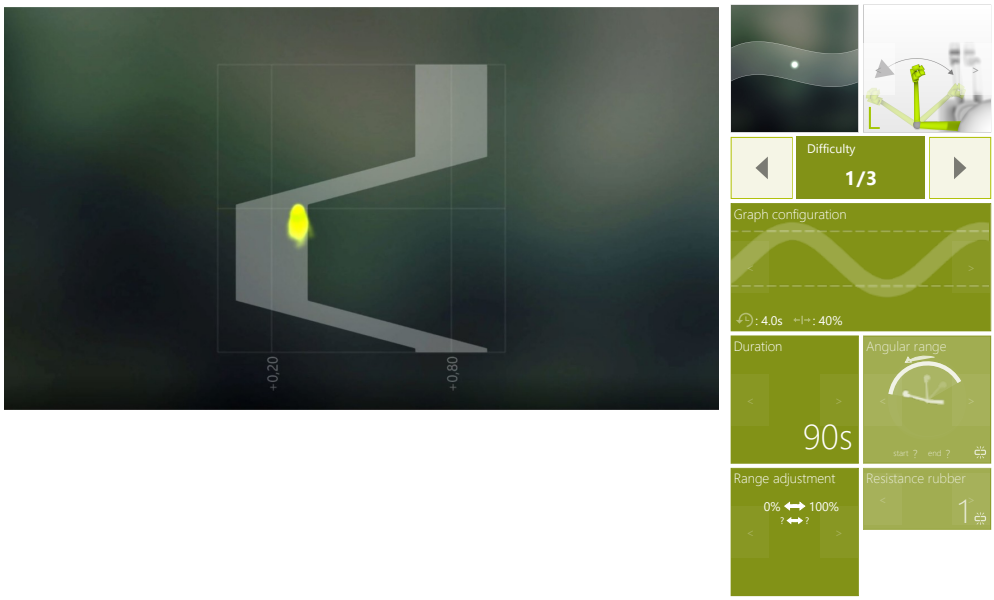
- Movement precision
- Activity in a given rhythm
- Repetitive movements
- Hands raising

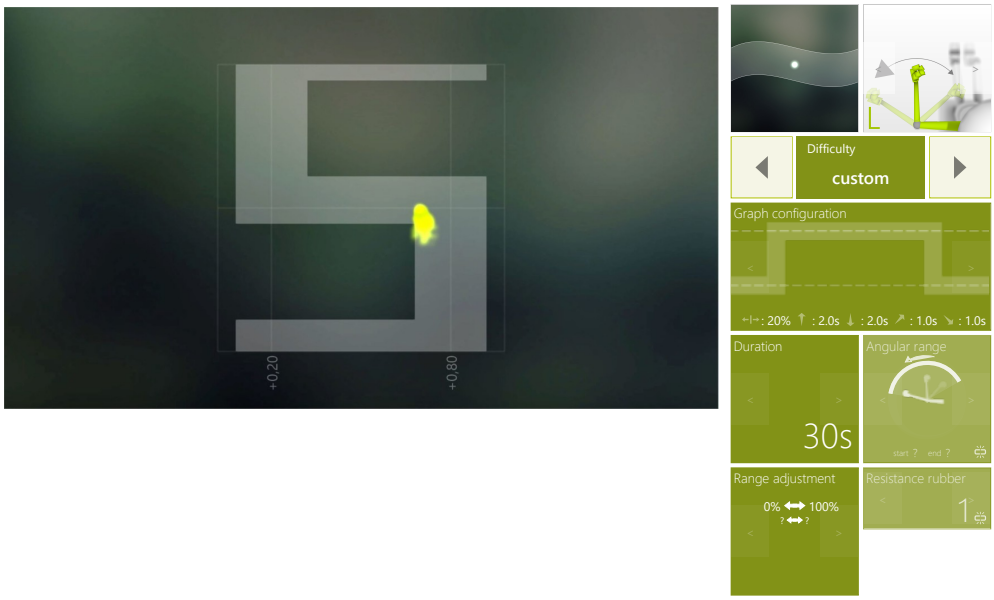
INSTRUCTION FOR PATIENT

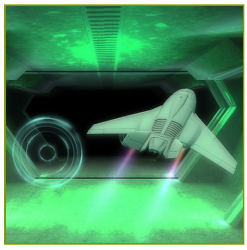
Try to stay within the borders.

SAMPLE SETTINGS







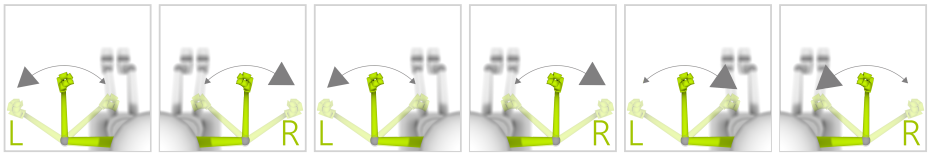


FUNCTIONAL MOVEMENTS

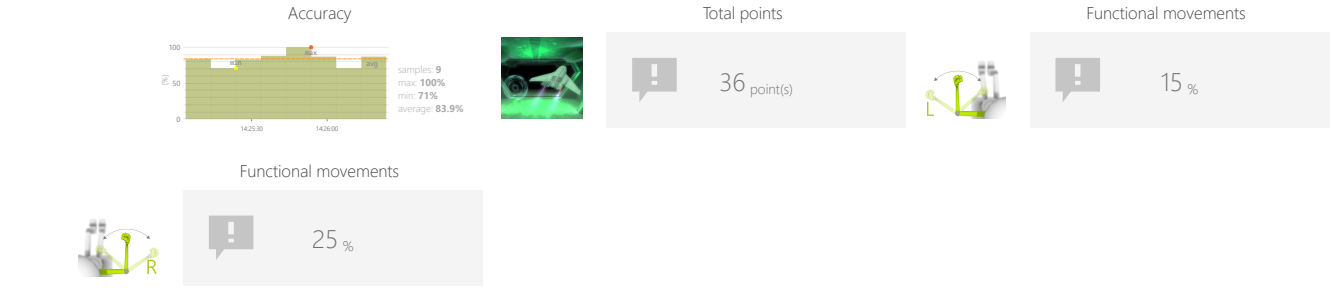
AIRPLANE

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Speed
- Direction
- Task duration
- Torque range
- Range adjustment
- Angle

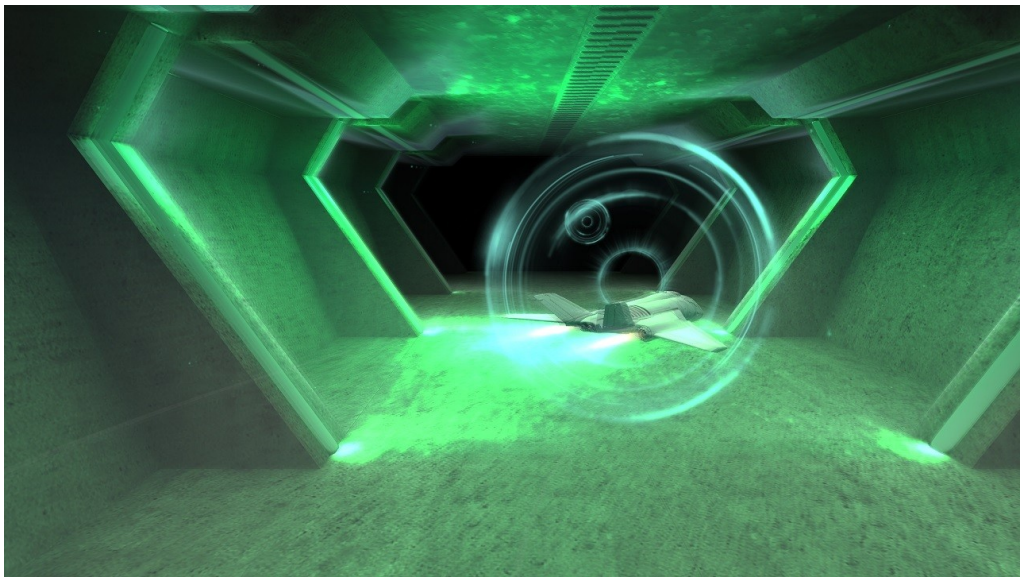
OBJECTIVES

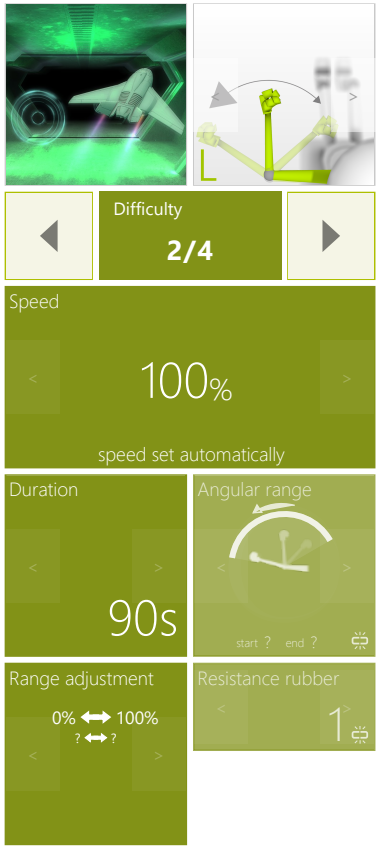
- Focusing
- Perceptivity
- Movement precision
- Predicting the trajectory of objects in 3D space
- Balance and equilibrium training

INSTRUCTION FOR PATIENT

Make the airplane fly through the circles. The closer to the center it flies the more points you get.

SAMPLE SETTINGS



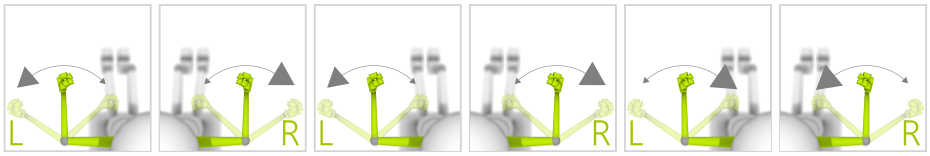


FUNCTIONAL MOVEMENTS

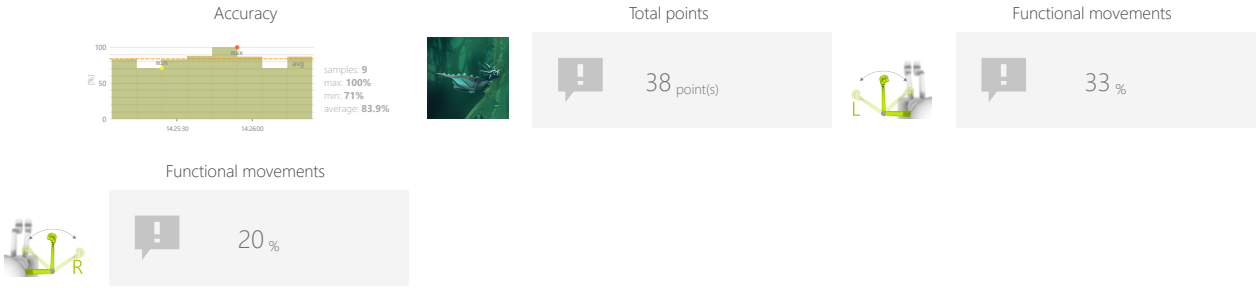
DRAGON

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Coins group size
- Distance between coins
- Gravity force

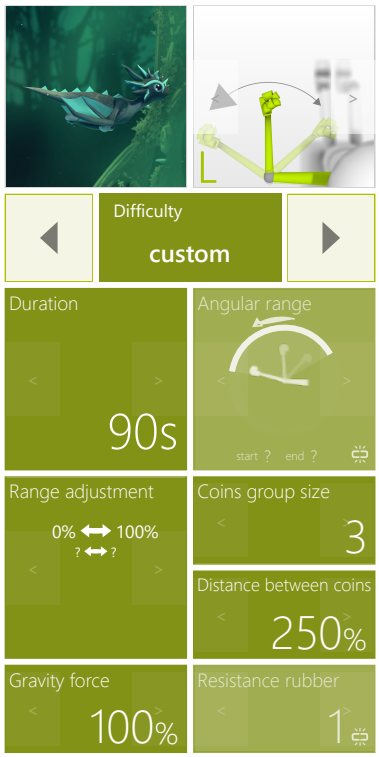
OBJECTIVES

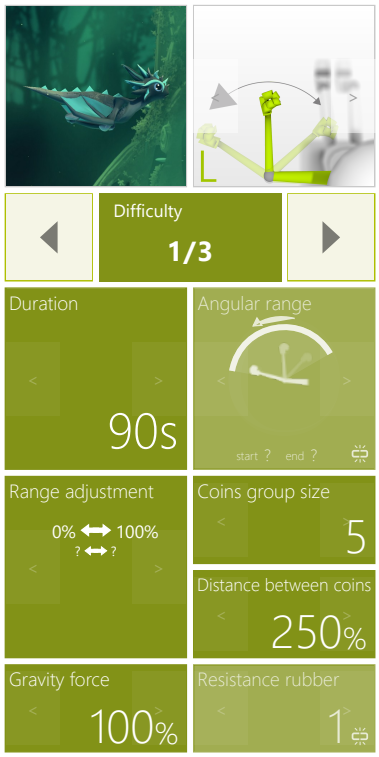
- Predicting the trajectory of objects
- Improve range of motion
- Visual motor coordination
- Muscle strengthening
- Planning and Strategy

INSTRUCTION FOR PATIENT

Fly and collect the coins.

SAMPLE SETTINGS



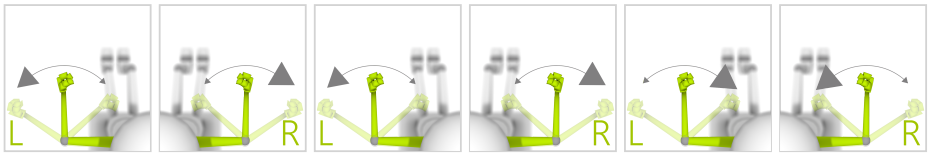


FUNCTIONAL MOVEMENTS

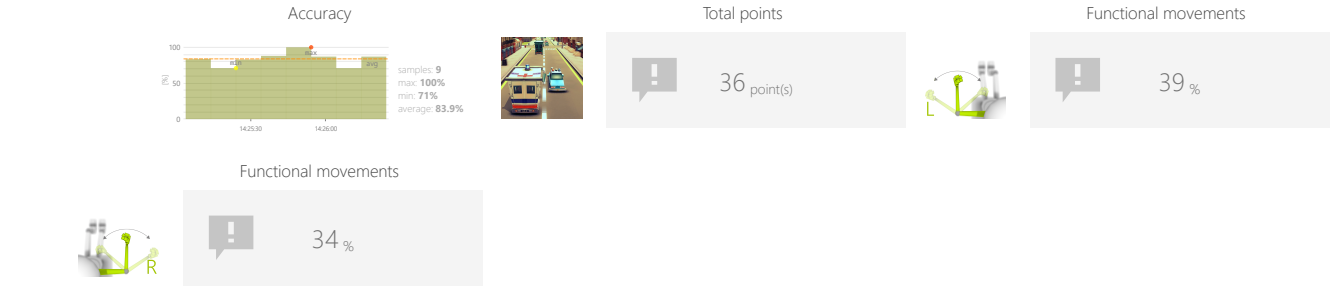
AMBULANCE

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Speed
- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Distance between cars

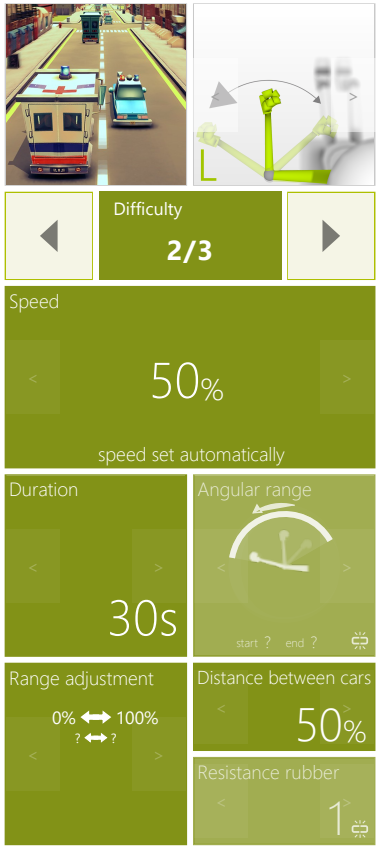
OBJECTIVES

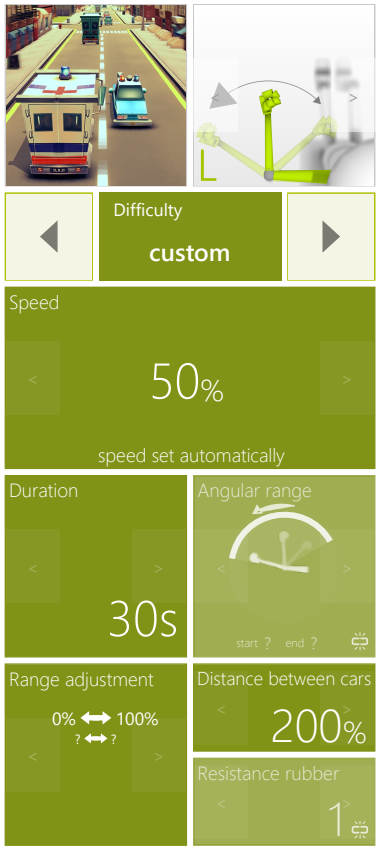
- Balance and equilibrium training
- Dynamics of planned movements
- Focusing
- Speed of decision making
- Visual motor coordination

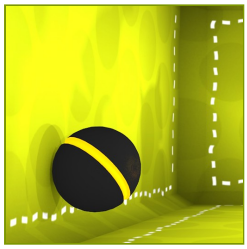
INSTRUCTION FOR PATIENT

Go as fast as you can and avoid hitting other cars.

SAMPLE SETTINGS





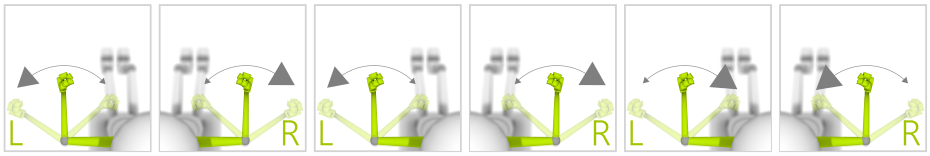


FUNCTIONAL MOVEMENTS

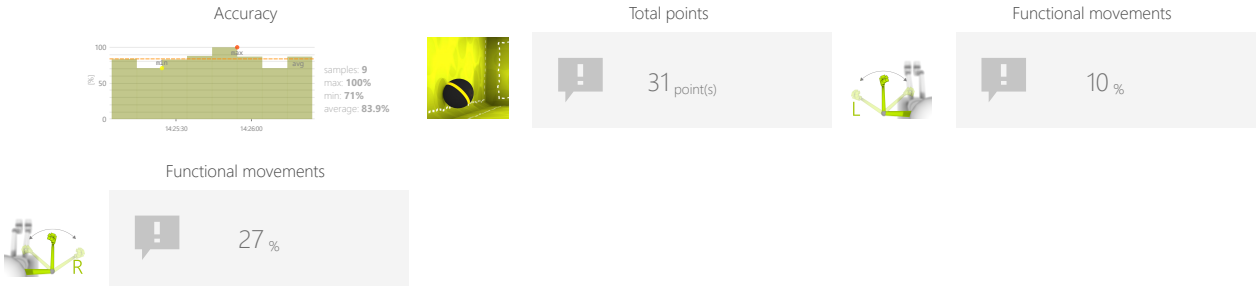
ARCANOID

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Reticle size
- Speed of objects

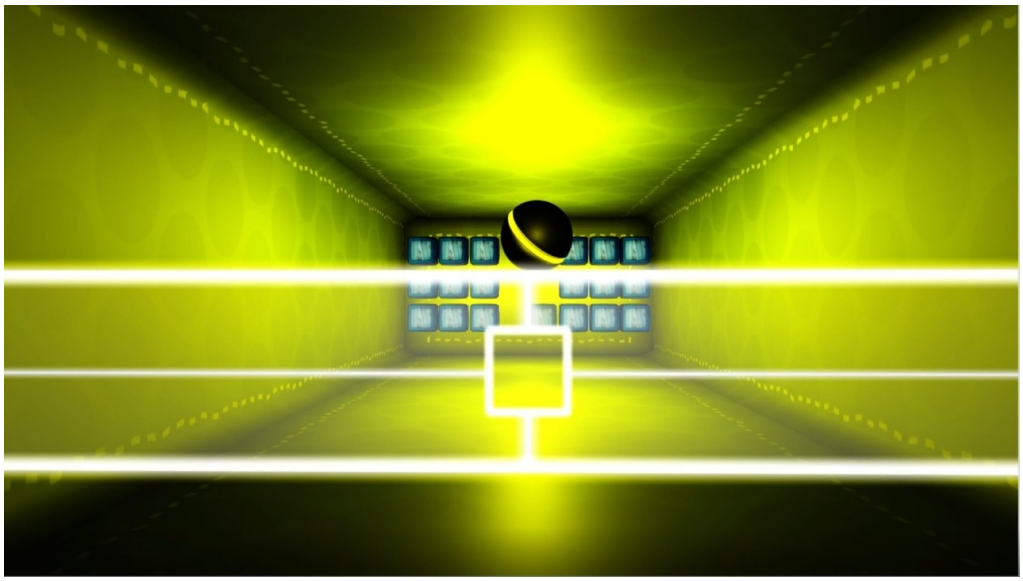
OBJECTIVES

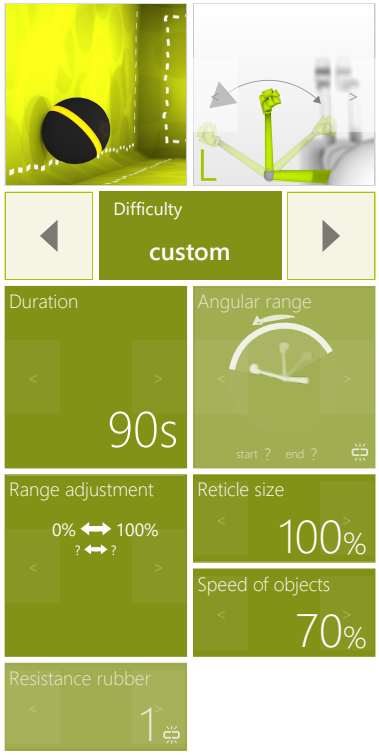
- Dynamics of planned movements
- Predicting the trajectory of objects in 3D space
- Visual motor coordination

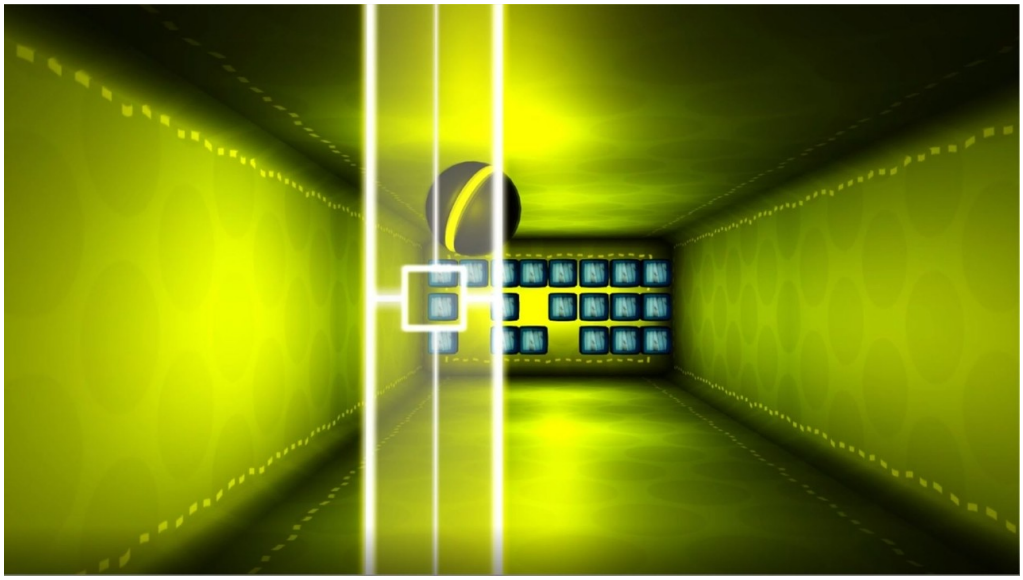
INSTRUCTION FOR PATIENT

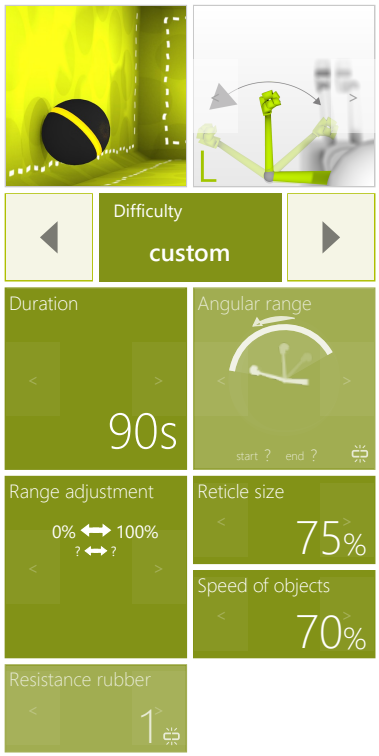
Destroy as many boxes as you can.

SAMPLE SETTINGS







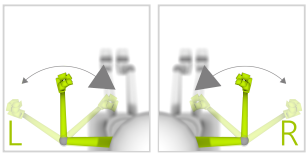


STRENGTH

STRENGTH TEST

Measure and gently motivate to increase individual's force while performing predefined movement patterns.

CONTROL MODES



ADJUSTMENTS

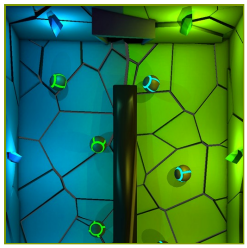
- Direction
- Torque range
- Time to complete action
- Angle

OBJECTIVES

- Strength examination
- Muscle strengthening

INSTRUCTION FOR PATIENT

Try to achieve best result

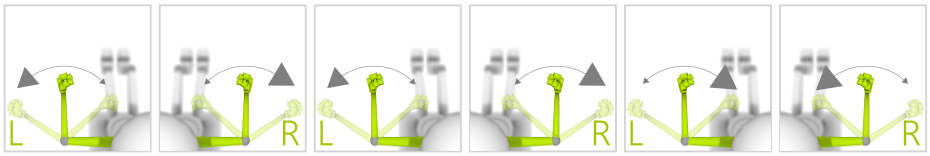


DIVIDED ATTENTION

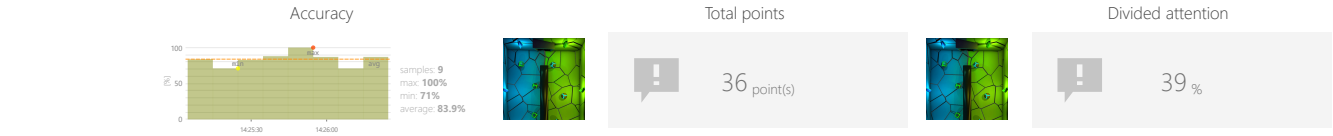
SORTER

Measure and train individual's skills to successfully execute more than one action at a time, while paying attention to two or more channels of information.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Number of objects
- Gap size
- Speed of objects

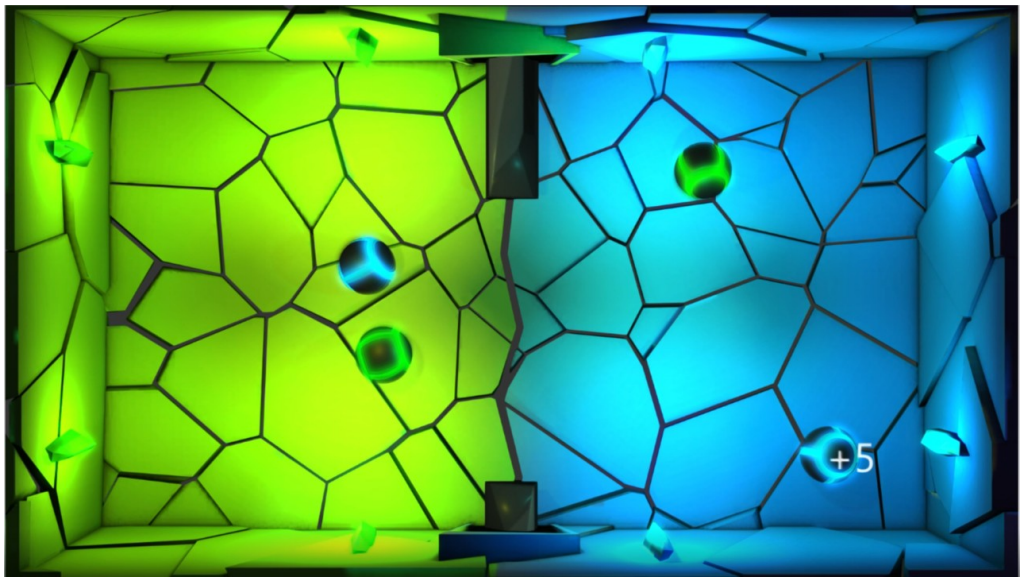
OBJECTIVES

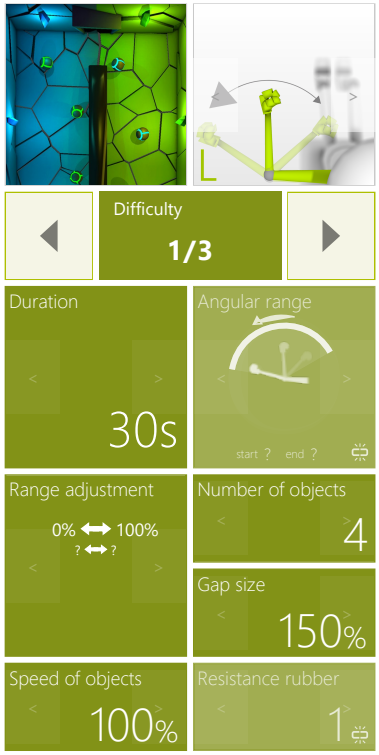
- Predicting the trajectory of objects
- Focusing
- Perceptivity
- Movement precision
- Exercise with or without support from healthy limb

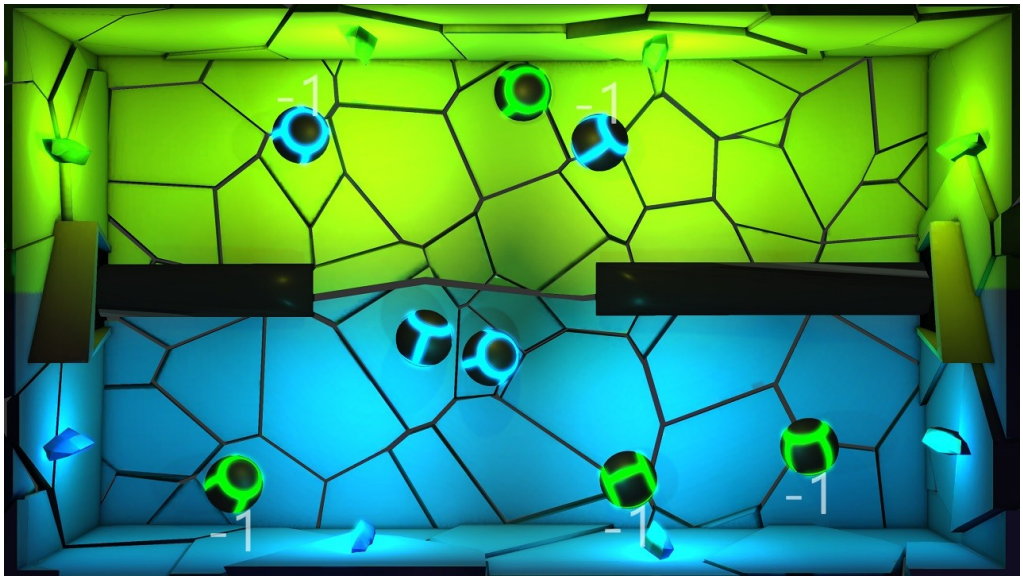
INSTRUCTION FOR PATIENT

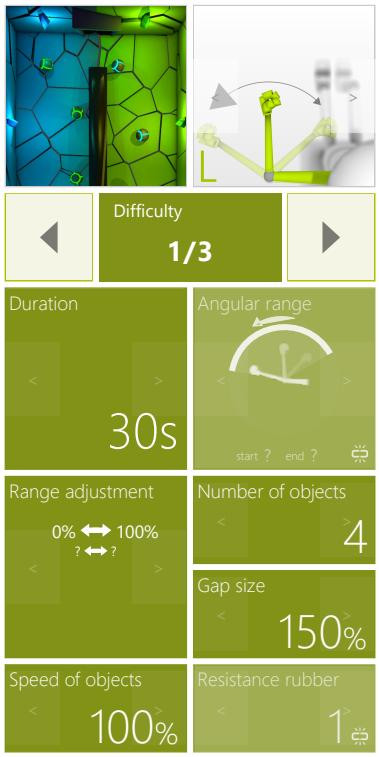
Pass or block the balls so that the blue balls are on the blue side and the green balls are on the green side of the screen.

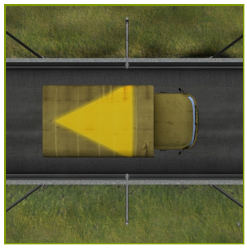
SAMPLE SETTINGS









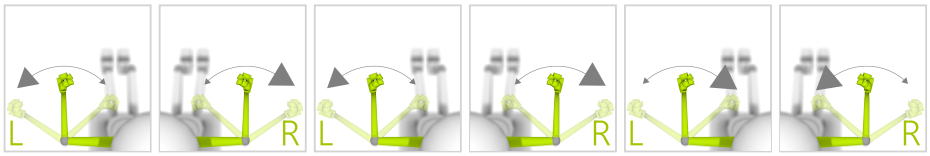


MEMORY

TRUCKS

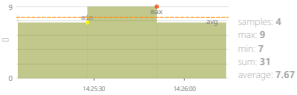
Measure and train individual's skills to memorize information.

CONTROL MODES



RESULTS

Number of repetitions



Accuracy

Total points

12 point(s)

Memory

21 %

ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Range adjustment
- Angle
- Variations

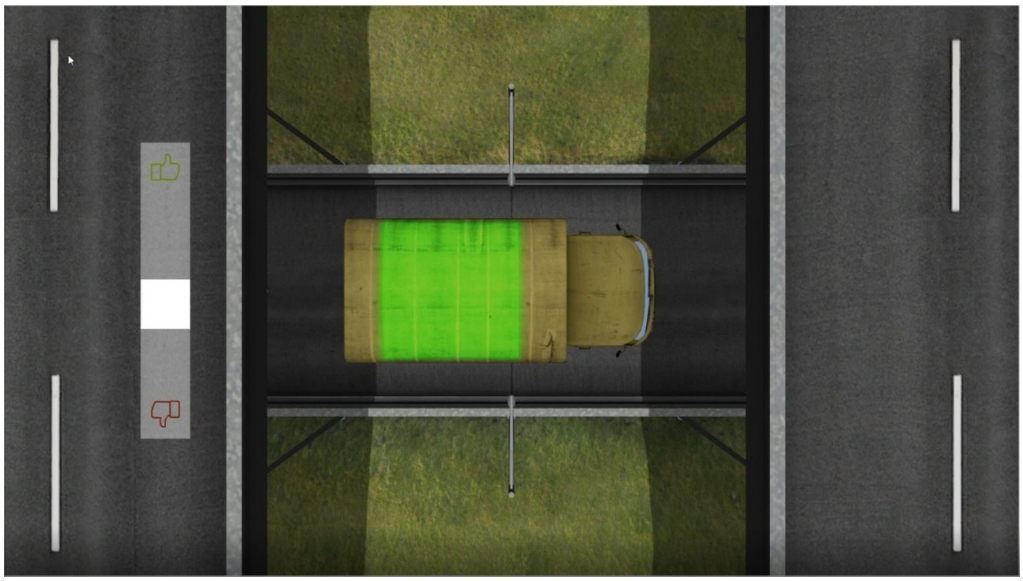
OBJECTIVES

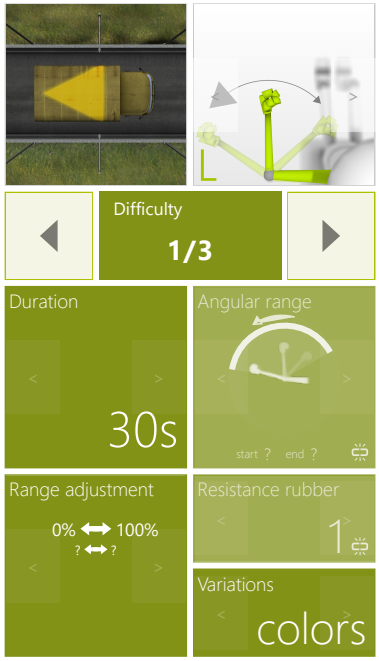
- Logical tasks
- Focusing
- Perceptivity

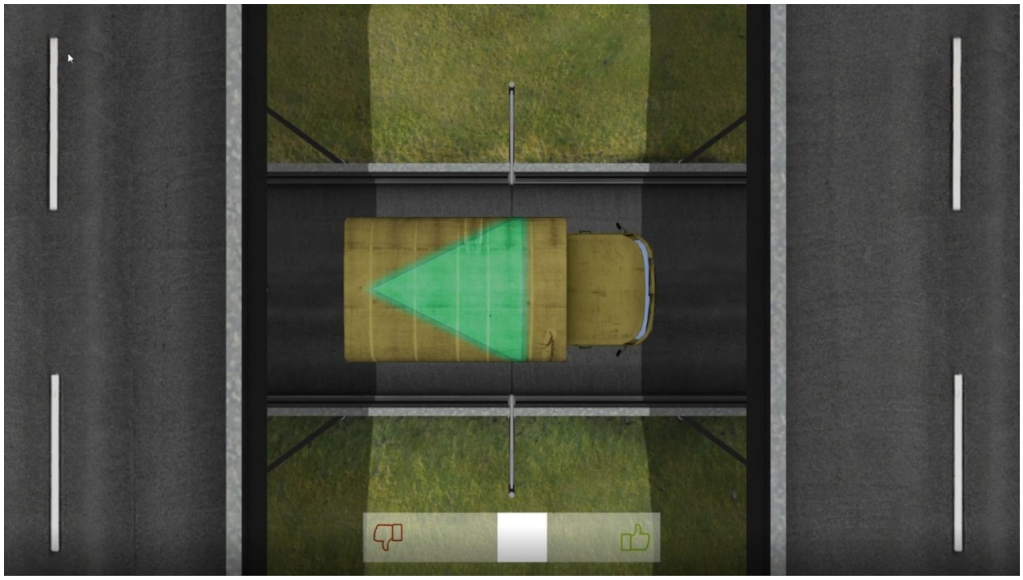
INSTRUCTION FOR PATIENT

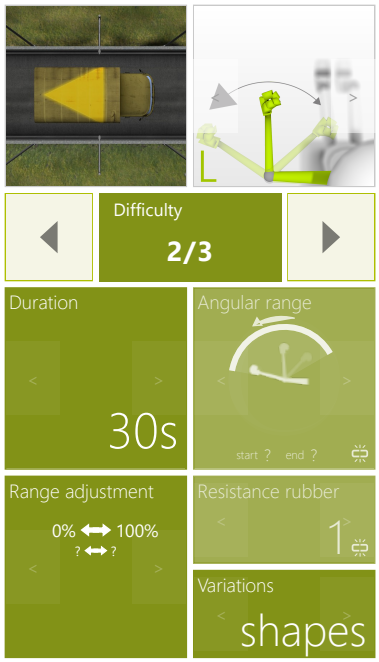
Remember the shape and/or its color on the roof of the car you see. Decide with thumbs up or down whether the next car has the same shape and/or color on the roof as the previous one.

SAMPLE SETTINGS







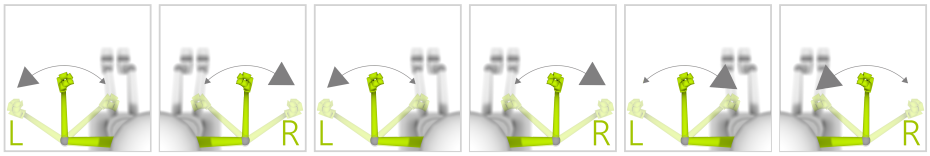


PROBLEM SOLVING

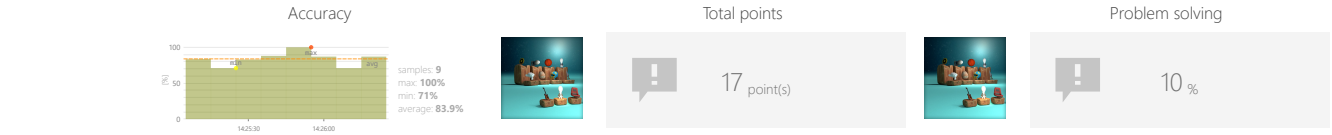
CLONES

Measure and train individual's skills to reach a solution of specific problems. Problem solving may include mathematical or systematic operations and can be a gauge of an individual's critical thinking skills.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Direction
- Task duration
- Torque range
- Time to complete action
- Range adjustment
- Angle
- Number of pairs

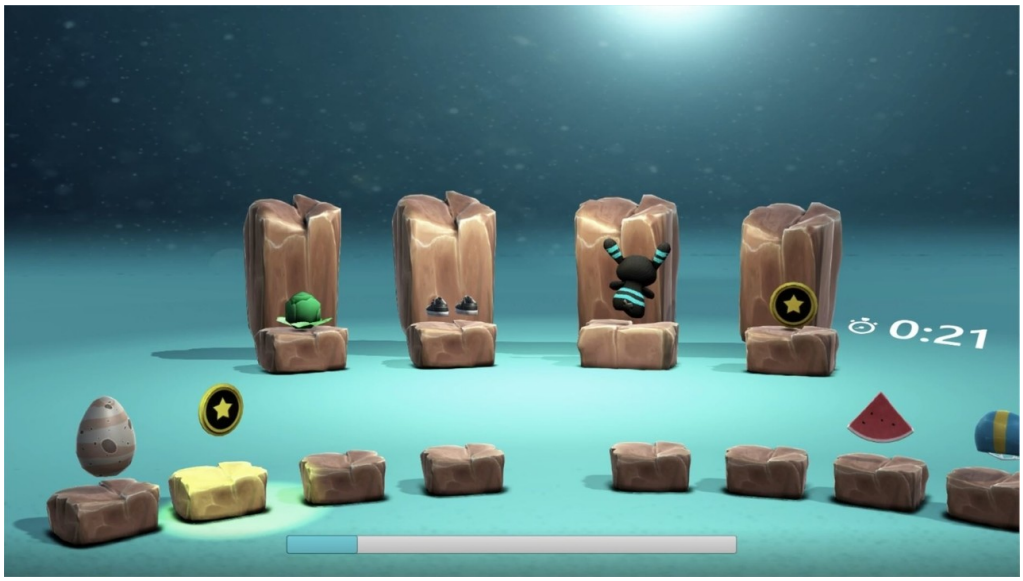
OBJECTIVES

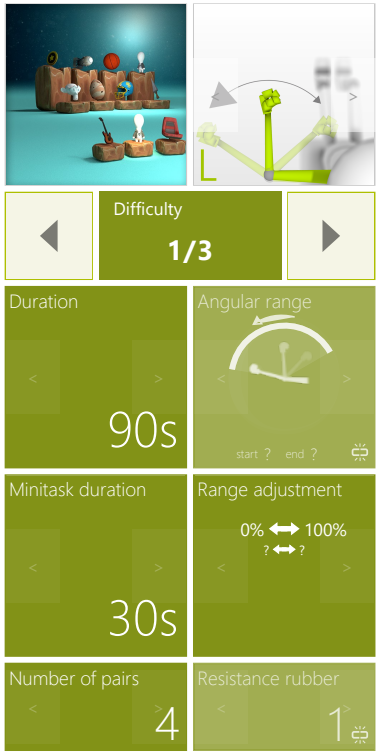
- Perceptivity
- Visual motor coordination
- Logical tasks

INSTRUCTION FOR PATIENT

Select the item which has a pair on the screen.

SAMPLE SETTINGS



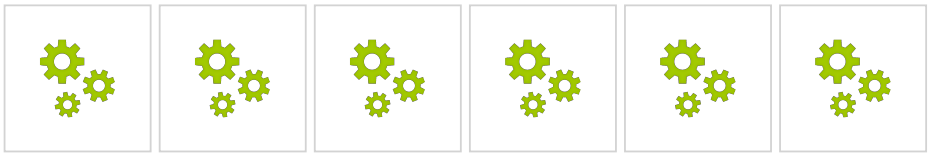


SPECIALIZED

BLOOD PRESSURE

Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

CONTROL MODES



ADJUSTMENTS

- Direction
- Torque range
- Range adjustment
- Angle

OBJECTIVES

- Monitor external parameters

INSTRUCTION FOR PATIENT

Measure yourself your blood pressure and type it in the result.