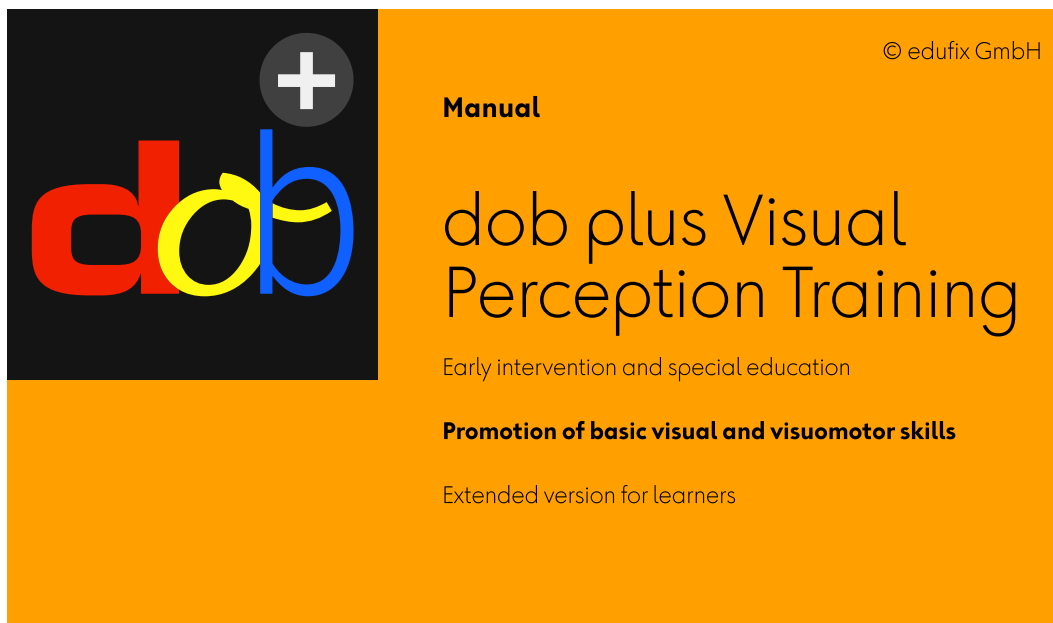




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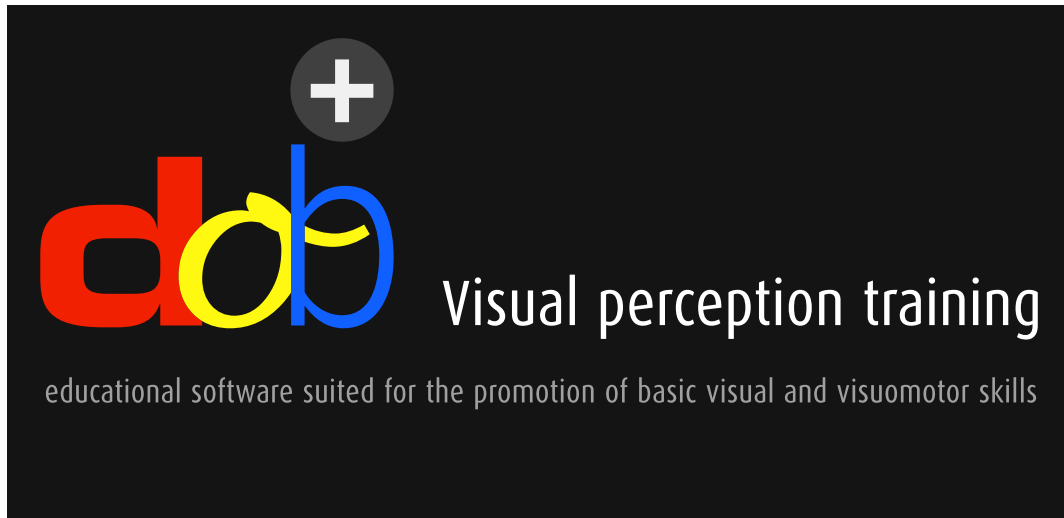
## 16. Team

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## 1. General



dob plus is an educational software suited for the promotion of basic visual and visuomotor skills. It is especially designed for the needs of visually impaired persons. The high extent of individualisation further allows its use in various fields of the curative as well as the special education, in rehabilitation, and as an assisting and observatory instrument in early education.

dob plus offers a broad range of exercises, covering easy stimulations, generally basic tasks as well as the training of cognitive skills

### Photosensitive Warning

A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Exposure to certain patterns or backgrounds on a computer screen may induce an epileptic seizure in these individuals. Certain conditions may induce previously undetected epileptic symptoms even in persons who have no history of prior seizures or epilepsy.

### i.1. Concept and Structure

dob pro offers more than 2500 exercises for the training of the most important visual skills allocated into six modules. They can be used as required in a wide variety of situations.

The integrated tools of dob pro enable individual support planning:

- Arrange exercises in a lesson
- Save and organize frequently used exercises to favorites
- Develop your own, individually adapted exercises with the integrated editor
- Exchange exercises with other professionals, using the export/import function

In general, those learning with dob should be accompanied by a professional who can explain the exercises and give support where needed.

## 2. Using dob plus

### 2.1. Requirements

#### 2.1.1. General

Through the use of different entry options (touchscreen, switching device, mouse or keypad) the program takes into account the special conditions of multiply retarded people. In most of dob's

exercises, the user's options are limited to a number of two: *confirm* and *continue*, commanded by the keys/gestures SPACE  and ENTER . Those two commands can also be defined on a switching device, allowing a most individual approach within each exercise. In general, those learning with dob should be accompanied by a professional who can explain the exercises and give support where needed.

→ [Keyboard shortcuts and touchscreen gestures](#)

In general, those learning with dob should be accompanied by a professional who can explain the exercises and give support where needed.

### 2.1.2. dob plus online

dob plus online can be used on desktop-computers as well as on laptops and tablets.

Desktop computers and laptops: Control by mouse, computer keyboard and switching devices. Connected with a Touchscreen, dob plus can be controlled by gestures additionally.

Tablets: Control by [gestures](#). External bluetooth keyboards are supported.

### 2.1.3. dob plus iOS App for iPads

The dob app works on iOS iPads. There are no app versions for Android devices. Please use the online version.

Control with gestures. Connected with an external bluetooth-keyboard, the App supports all dob plus [shortcut keys](#).

## 3. Home screen

dob plus is the extended version for students, dob the basic version and dob pro is the full version for therapists, coaches and teachers

dob contains a set of 10 fixed exercises, covering the most important visual skills. Additionally there is an import area for 10 more exercises where you are able to import more exercises from dob pro - the full version for teachers and therapists.

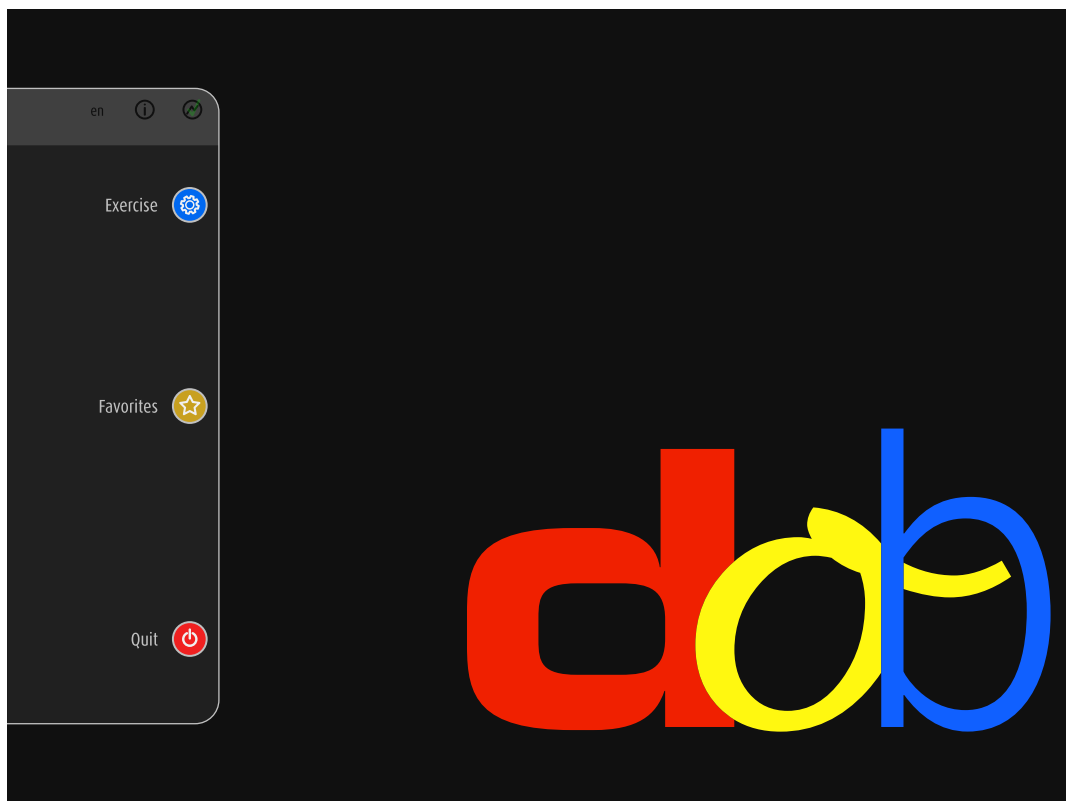
dob plus contains the complete set of more than 2500 exercises available in dob pro and an import area.

dob pro contains more than 2500 exercises for the training and observation of 11 basic visual skills and tools to assist individual support planning.

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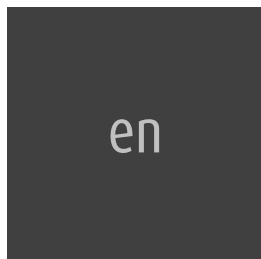




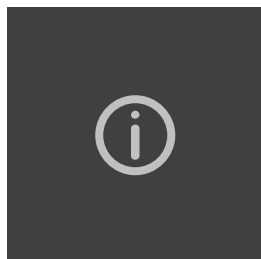
### 3.1. Main Menu and Navigation

After starting the program, the main menu will be displayed. It can be displayed at any time using the

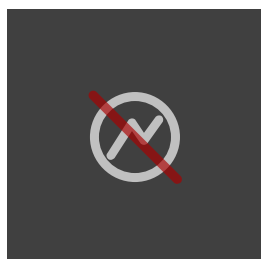
key combination  +  or gesture . At the end of an exercise the menu will be displayed automatically.



Select language



Reveal shortcut keys

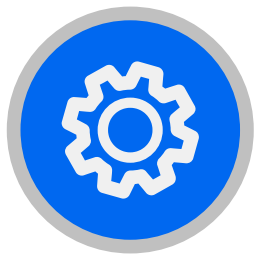


Evaluation settings

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To the exercise



Fast Track to the exercises

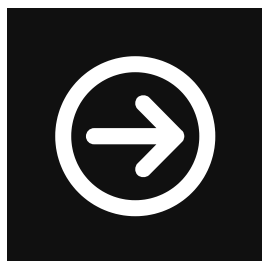


Close program

Usually, the following functions are available:



Home  
Back to the main menu



Start / weiter  
Alternative: SPACE

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### 3.2. Program control

On a tablet, the program is controlled by gestures. Using a computer or laptop, program functions are controlled by shortcut keys and/or gestures, if a touchscreen is connected.

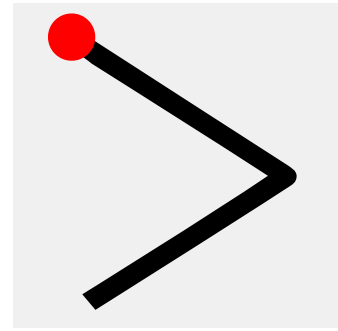
→ [Keyboard shortcuts and touchscreen gestures](#)

| Effect         | Shortcut key       | Gesture          |
|----------------|--------------------|------------------|
| Start exercise | Click the exercise | Tap the exercise |

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Start task  
Confirm task

space



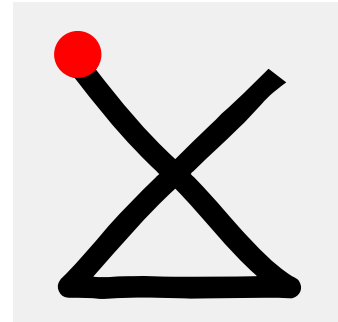
exercise

Click the object

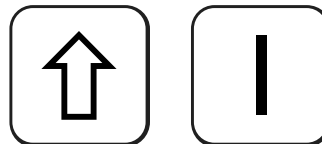
Tap the object

Quit exercise

enter



List of shortcut keys and  
gestures



Within exercises, commands are available to adapt the visual environment in order to individualize to your personal needs. They will be explained in → [Program Control Using Keys and Touch Screen](#) erläutert.

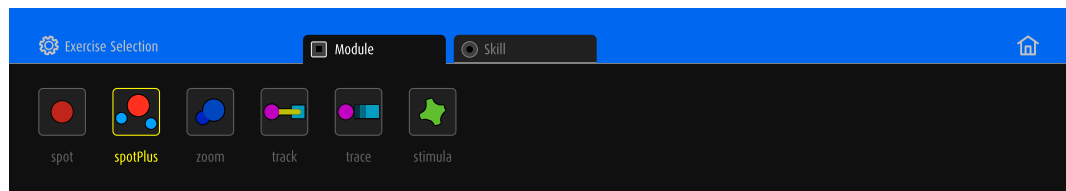
→ [Keyboard shortcuts and touchscreen gestures](#)

## 4. Exercise Selection

### 4.1. Two Approaches

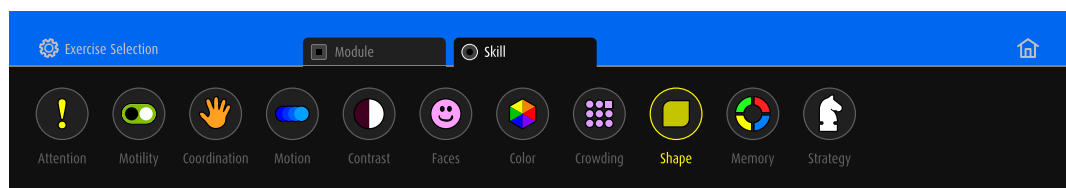
You have access to the individual exercises of dob either by choosing a module or by choosing a visual skill.

A module is a specific type of exercise. Within a module, different skills can be trained.



Module selection → [descriptions of the modules](#)

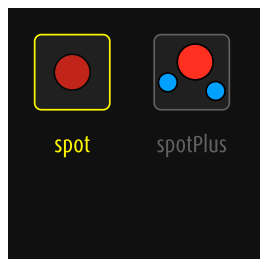
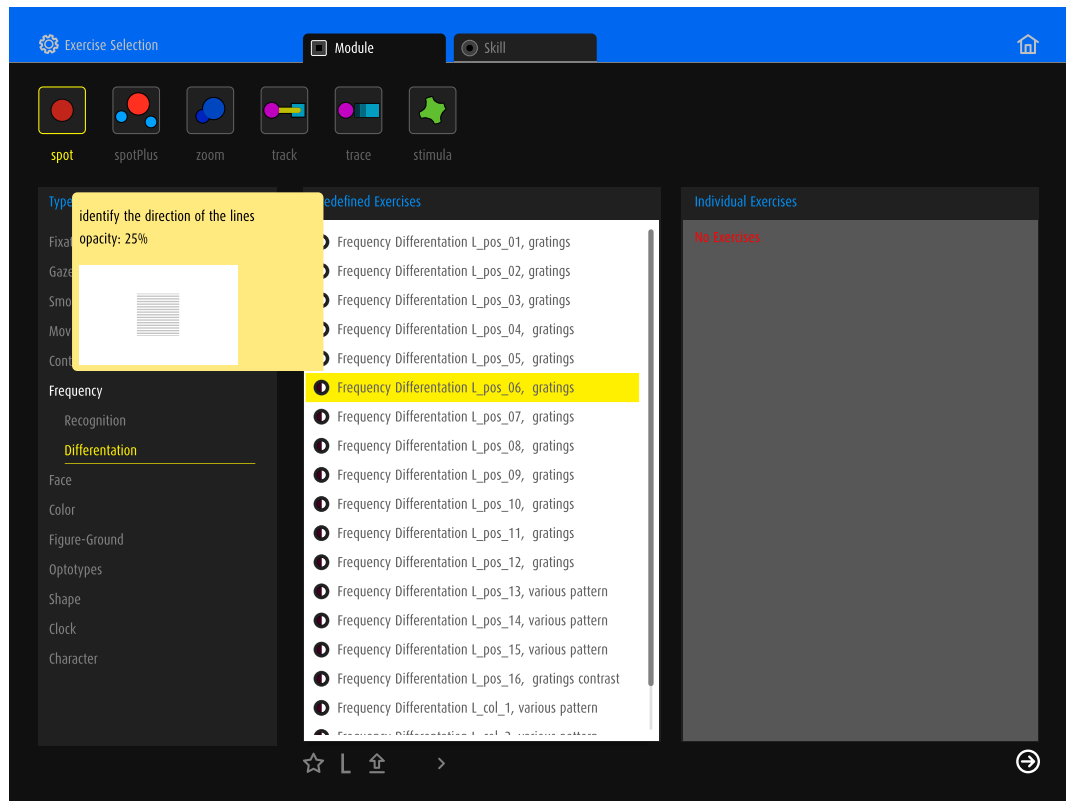
Visual perception ability requires different skills. The selection of an exercise can also be done by choosing a particular skill of vision.



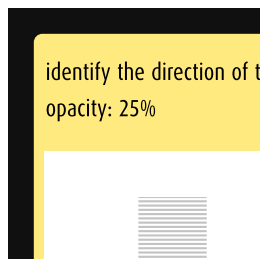
Skill selection → [list of skills and subskills](#)

Press T (toggle)  to invert the order of the approaches.

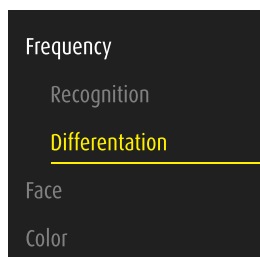
## 4.2. Choose an Exercise by Module



Module selection



Preview and description



Type of exercise

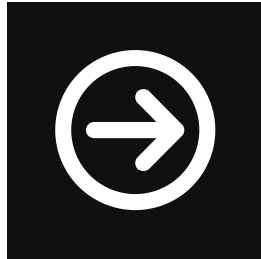
Supplement

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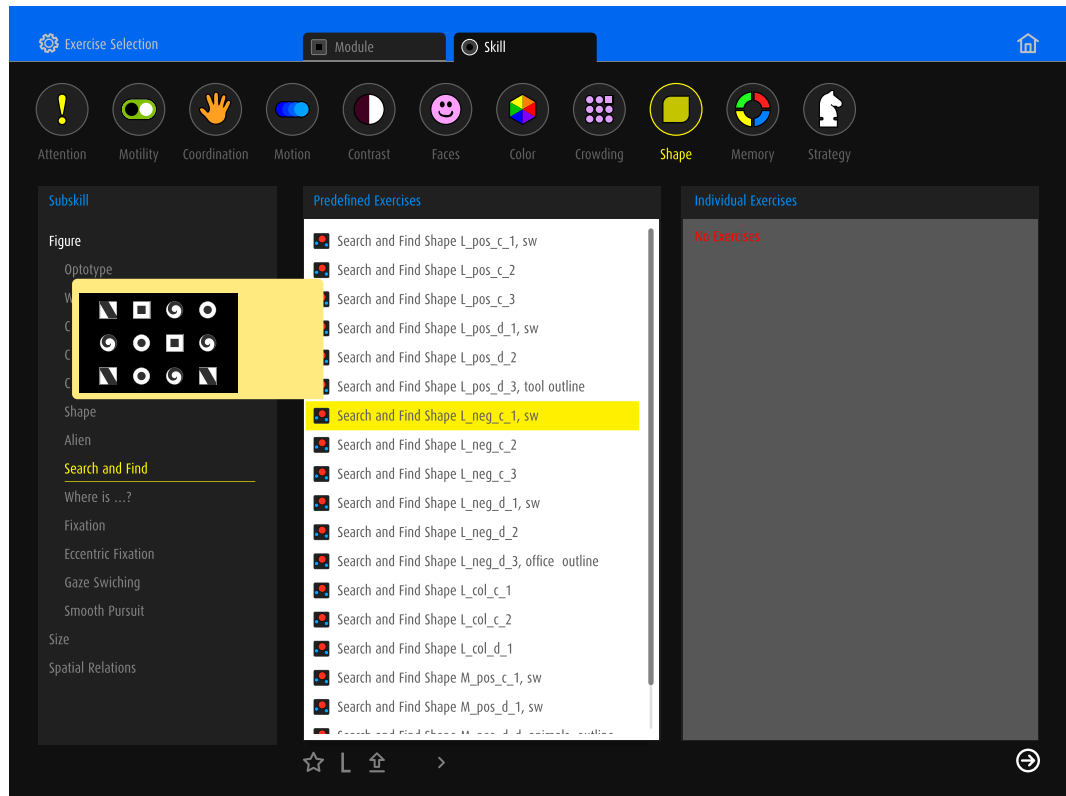
- Frequency Differentiation
- Frequency Differentiation
- Frequency Differentiation
- Frequency Differentiation
- Frequency Differentiation
- Frequency Differentiation

Exercise name and associated skill

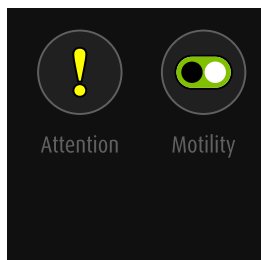


Start exercise  
or SPACE

### 4.3. Choose an Exercise by Skill

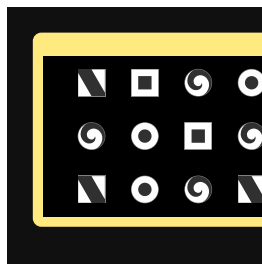


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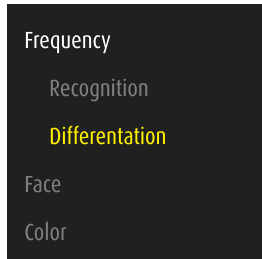


Skill selection

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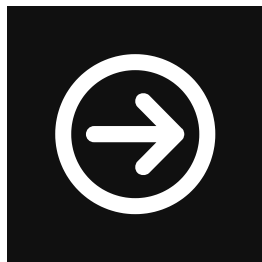
Preview and description



Partial Skill

- Search and Find Shape I
- Search and Find Shape I
- Search and Find Shape I
- Search and Find Shape I
- Search and Find Shape I
- Search and Find Shape I

Exercise name and associated module



Start exercise  
or SPACE

## 4.4. Predefined Exercises

dob plus consists of more than 2500 predefined exercises.

→ [overview of all exercises sorted by category on www.dob.li](http://www.dob.li)

### 4.4.1 Name of Predefined Exercises

The title of an exercise generally contains a two-part name, a code and is possibly followed by a specification. The first part of the name describes the type of the exercise (e.g. Gaze Switching), the second additional word (e.g. vertical) further limits the type of exercise. The code gives reference to the design of the visual environment.

→ [Exercise Categories and Primary Skill](#)

Example: Gaze Switching vertical L\_col\_2, animated

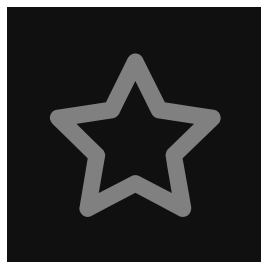
| Task | Object size      | Colors, contrasts                                       | Number | Addition |
|------|------------------|---------------------------------------------------------|--------|----------|
| Text | XXL maximum size | pos Dark object on a light background                   | Nr.    | *        |
|      | XL very large    | neg Bright object on a dark background                  |        |          |
|      | L large          | col Colored object on a colored or patterned background |        |          |

- M medium
- S small
- XS very small
- XXS minimum size
- R range,  
sequence

The supplements after the code indicate further special features.

|                        |                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------|
| bw                     | Black object on white background, optimum contrast second background color: light gray (glare sensitivity) |
| animated               | Animated object                                                                                            |
| vehicles (for example) | Representational objects of a certain category                                                             |

#### 4.4.2 Manage Predefined Exercises



Add exercise to → [favorites](#)

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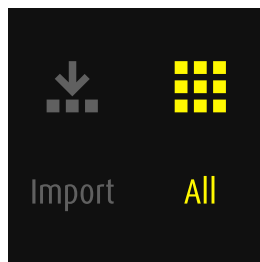
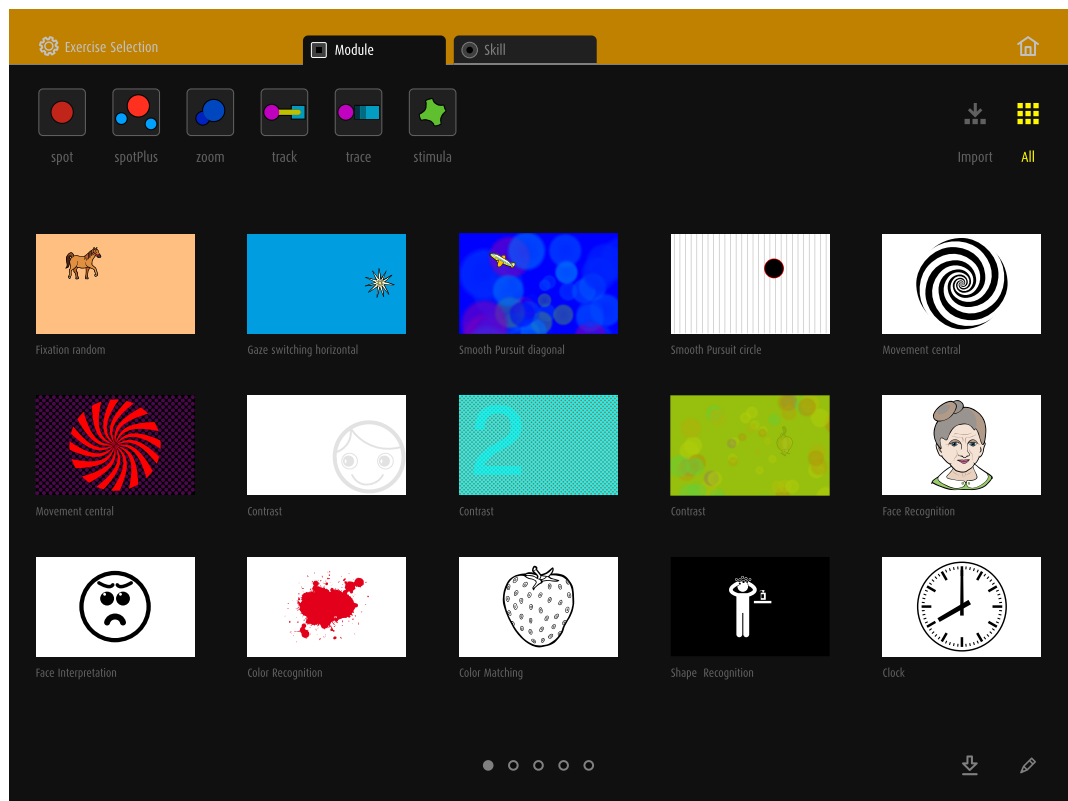
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## 5. Favorites

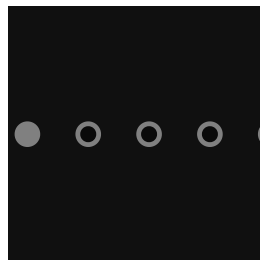
### 5.1. General

*Favorites*  takes you to a selection of exercises out of various modules. It can also be adapted according to individual needs. The list can be filtered by skill or by module. Click/ tap on a thumbnail to start the exercise.

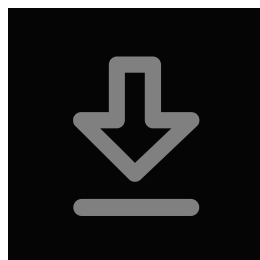
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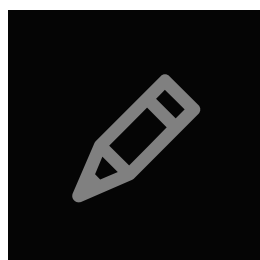
Show only imported / all favorites



Page  
Click on the dots below or swipe left or right (touchscreen) to select another page.



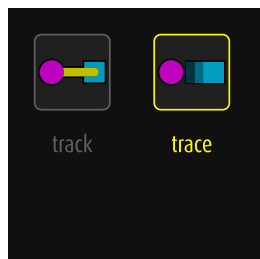
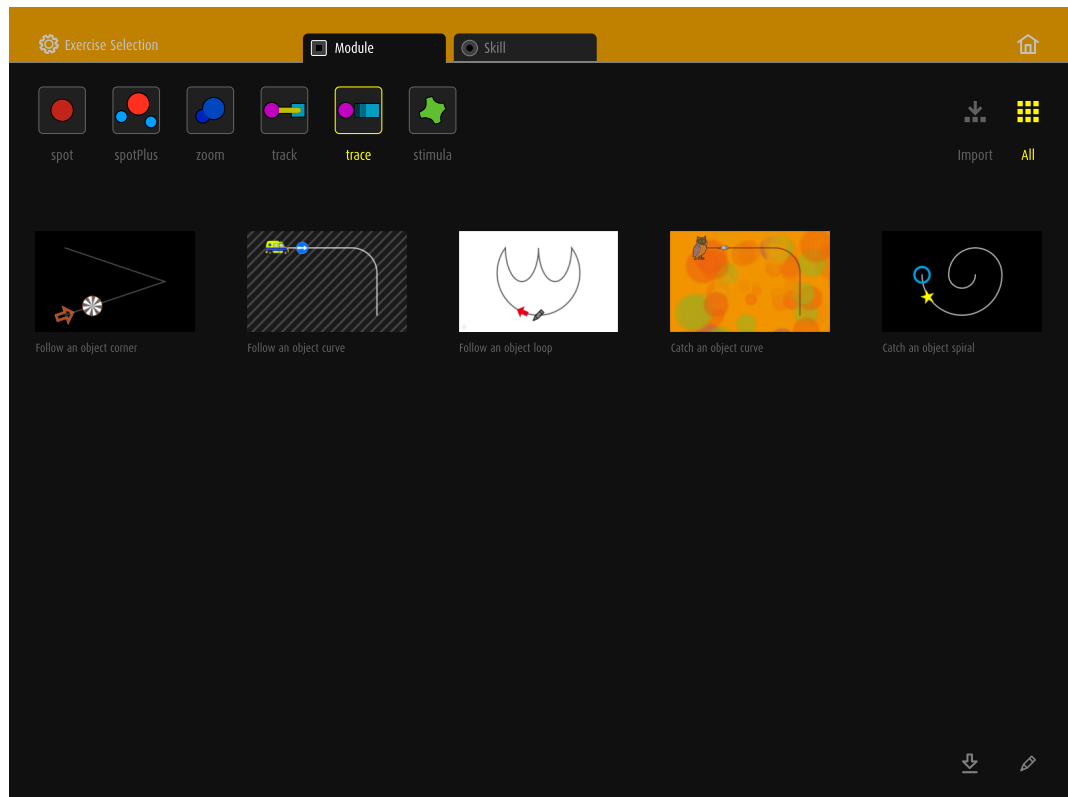
→ Import Exercises



→ Customize favorites

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Filter by Module  
Example: Only module trace favorites will be shown.

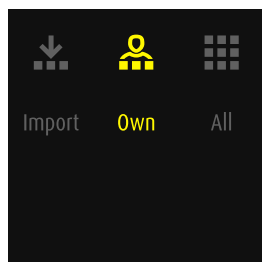
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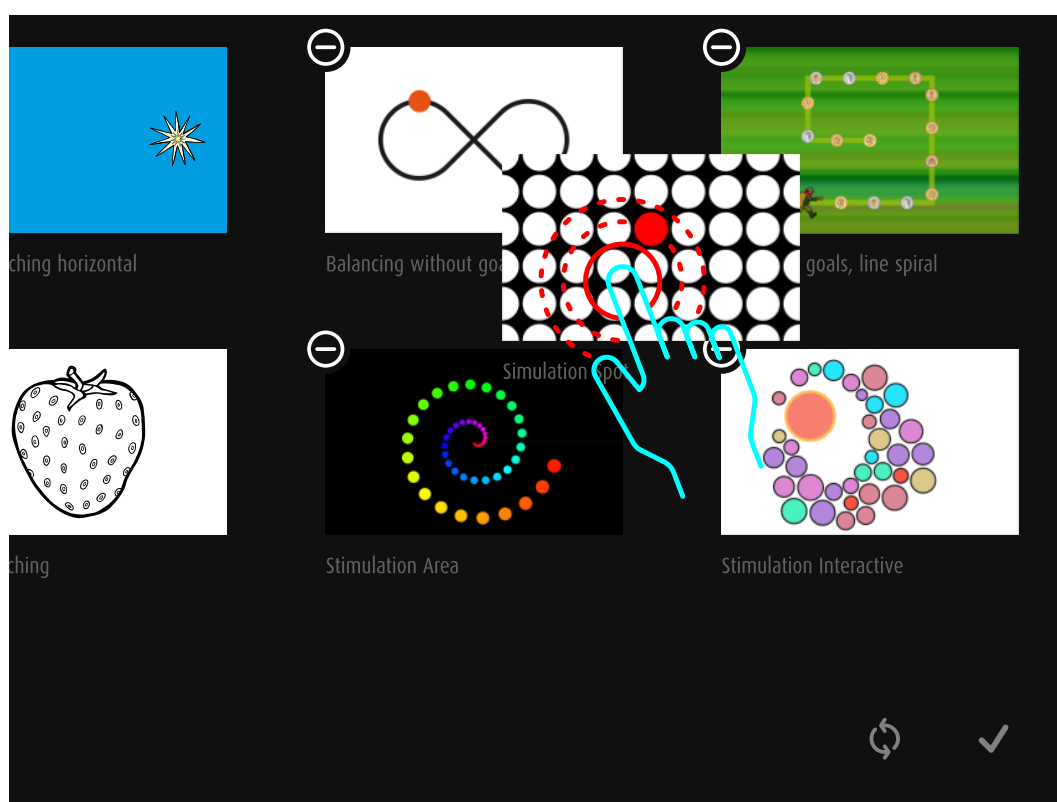
Click on *Own* will show exclusively exercises that are stored in *Individual Exercises* and marked as favorites.  
 → [Manage Individual Exercises](#)

## 5.2. Customize favorites

Click on  to edit the list.

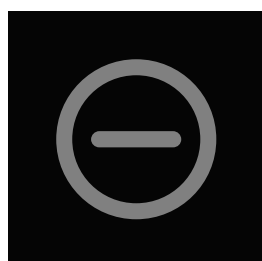
### Change the order

Drag the thumbnail with your finger (touchscreen) or mouse to place it wherever you want.  
 Drag the thumbnail to the edge of the screen to move it to a different page.



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Remove exercise

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Restore default settings  
*Warning: All changes will be lost!*



Exit editing mode

### 5.3. Save exercises as favorites

Predefined exercises as well as individual exercises can be added to favorites.

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## Predefined Exercises

- Separation Area XL\_pos\_b\_1, sw transparent
- Separation Area XL\_pos\_b\_2, sw opaque
- Separation Area XL\_neg\_b\_1, sw transparent
- Separation Area XL\_neg\_b\_2, sw opaque
- Separation Area XL\_col\_b\_1, transparent ❄
- Separation Area XL\_col\_b\_2, opaque
- Separation Area M\_col\_d\_1
- Separation Area M\_col\_e\_1, forest ❄

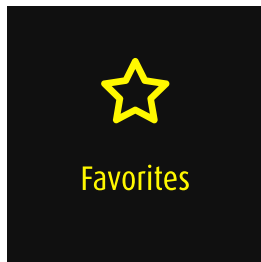


Favorites

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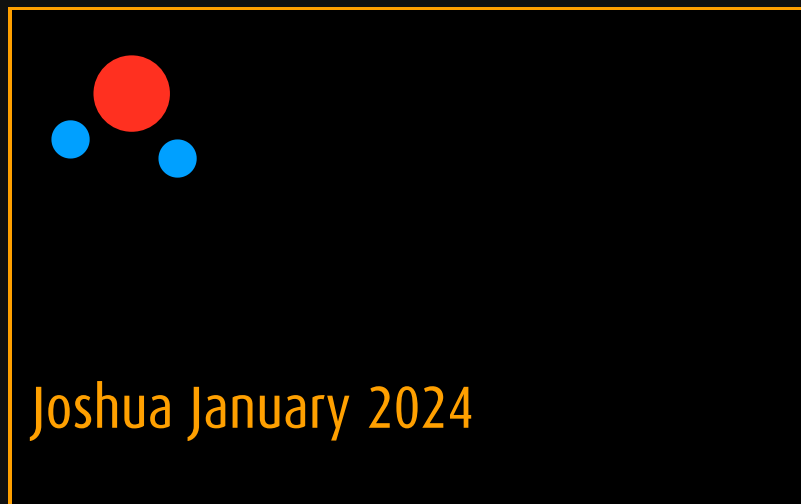
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Add selected exercise to favorites/Remove exercise



Exercise has already been saved as a favorite.



Separation Area

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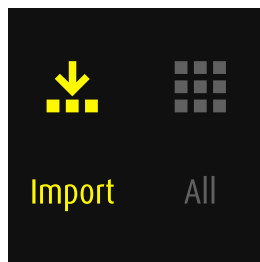
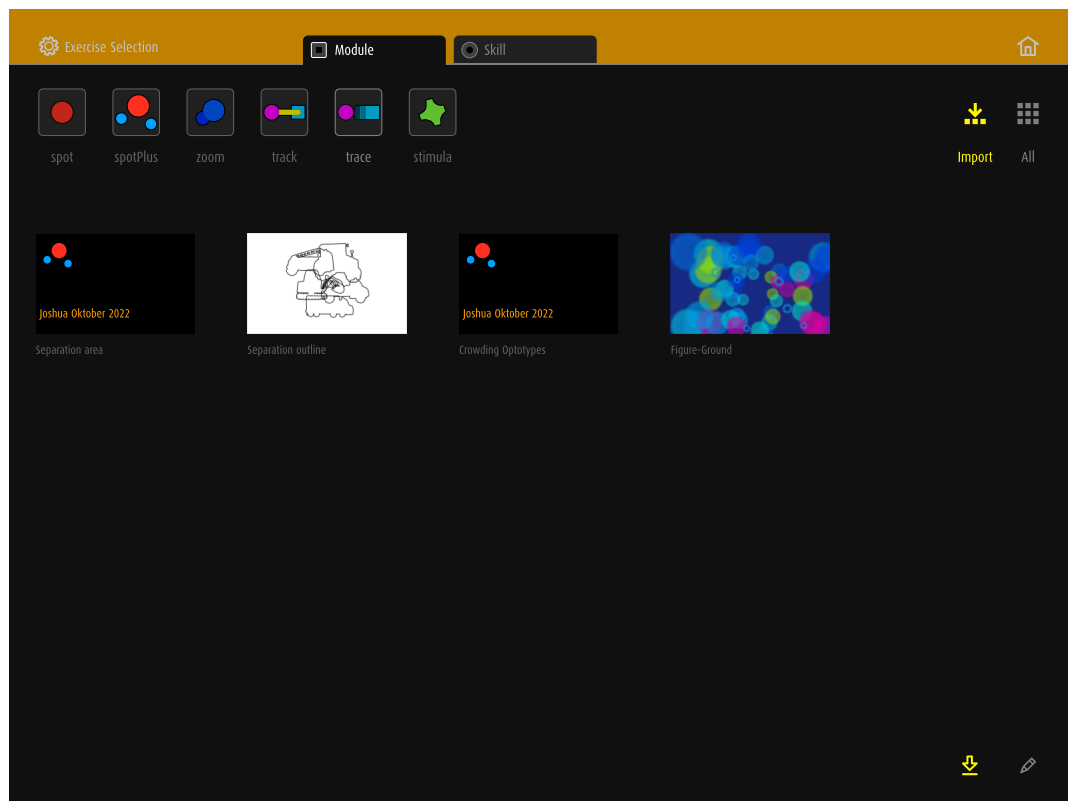
Individual Exercises will be saved with the module icon and their name.

## 6. Import

### 6.1. General

Favorites  takes you to the area to import exercises and manage them.

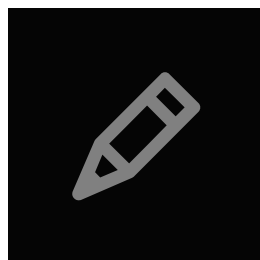




Show imported files



Import exercises



Costumize import

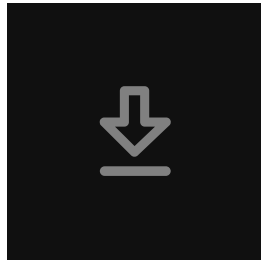
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## 6.2. Import exercises from dob pro

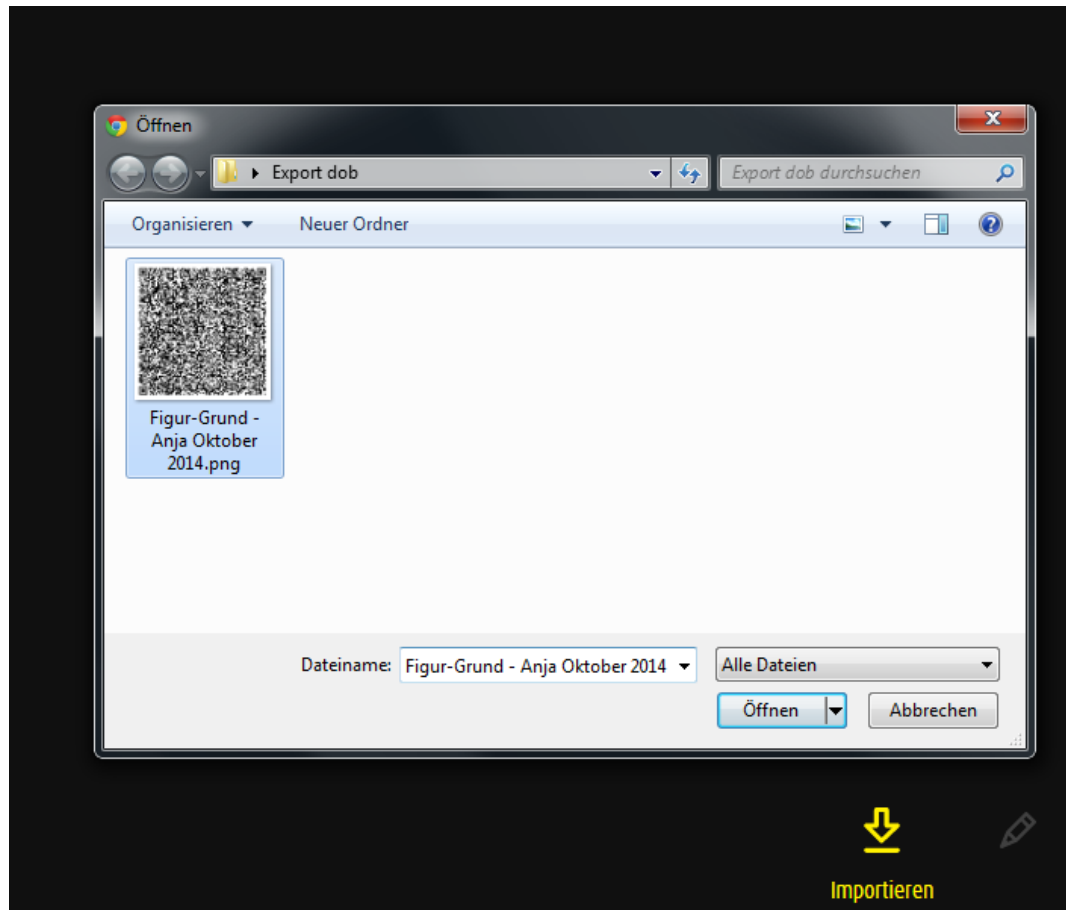
The exercises of dob plus can be completed by additional exercises. They are provided by other dob pro users as a QR-Code → [Export](#).

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### 6.2.1. Import exercises dob plus online



Click on *Import*



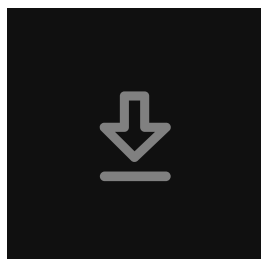
Click on *Select file*

Choose the QR-code and confirm the selection

Exercises will be extracted and displayed in the import area.

Note: An image of the QR-Code can actually not be taken and imported by tablet camera.

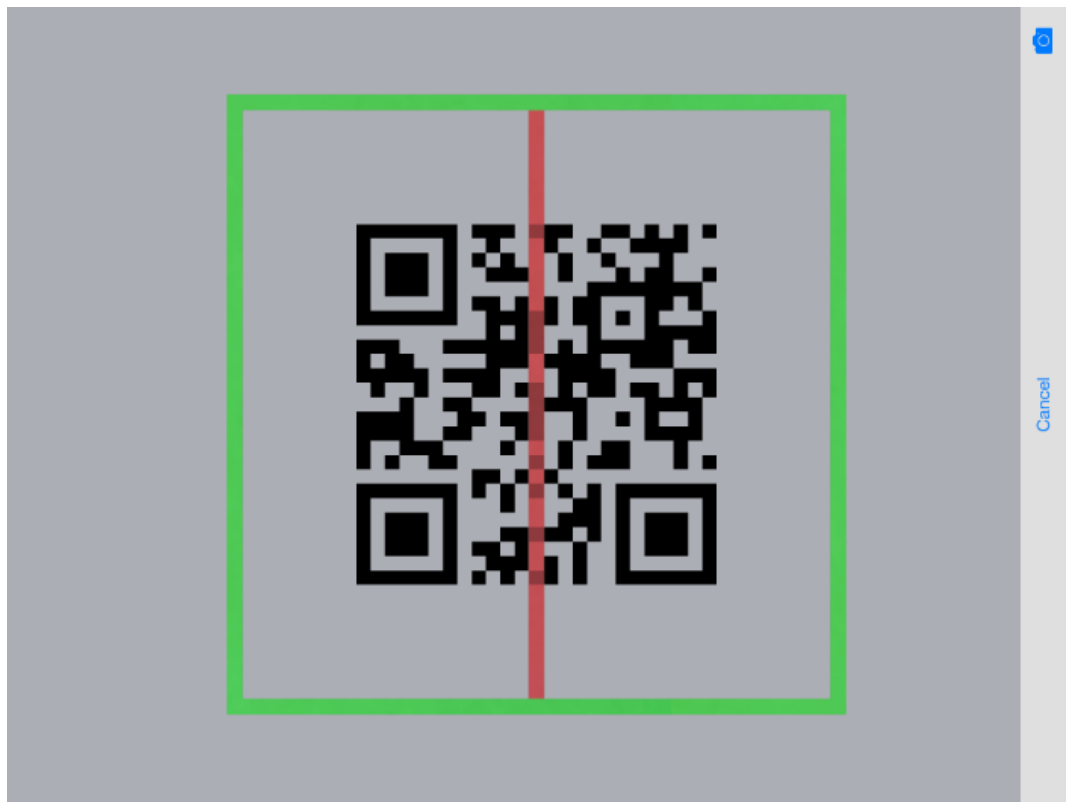
### 6.2.2. Import exercises dob plus iOS App for iPads



Click on *Import* gives access to the code scanner.

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Move the green frame over the code image.

It will automatically be scanned and the exercises will be loaded to in the import area.

## 7. Module

### 7.1. spot – Recognize an object 1

#### 7.1.1. Task

An object will appear on the screen. Locate, recognize and name it.  
Alternative: The object on the screen is in motion.

#### 7.1.2. Course of Exercise

- If necessary, a preview of the requested object will be shown.
- Click on the start button or press SPACE.
- An object will appear on the screen.  
Locate, recognize and name it.  
The preview can be shown within the task using Shift + H.
- Alternative: The object is in motion.
- Click on the object.  
Alternative: SPACE

Within exercises, animation, object size, contrast, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [Individualization Modul spot](#)

Create individual exercises → [Editor all modules](#)

→ [editor module spot](#)

### 7.1.3. Exercises

| Type of exercise | Supplement                                                         |
|------------------|--------------------------------------------------------------------|
| Fixation         | random<br>peripheral right-left<br>peripheral up-down              |
| Visual Field     | right<br>left<br>up<br>down                                        |
| Gaze Switching   | horizontal<br>vertical<br>diagonal                                 |
| Smooth Pursuit   | horizontal<br>vertical<br>diagonal<br>circle<br>square<br>triangle |
| Movement central |                                                                    |
| Contrast         |                                                                    |
| Frequency        | Recognition<br>Differentiation                                     |
| Color            | Recognition<br>Differentiation                                     |
| Face             | Recognition<br>Interpretation                                      |
| Figure-Ground    |                                                                    |
| Optotypes        | Lea-Symbols<br>Landolt Rings<br>Tumbling E                         |
| Shape            | Recognition<br>Scanning<br>Discovering                             |
| Clock            |                                                                    |
| Character        | Letters<br>Numbers                                                 |

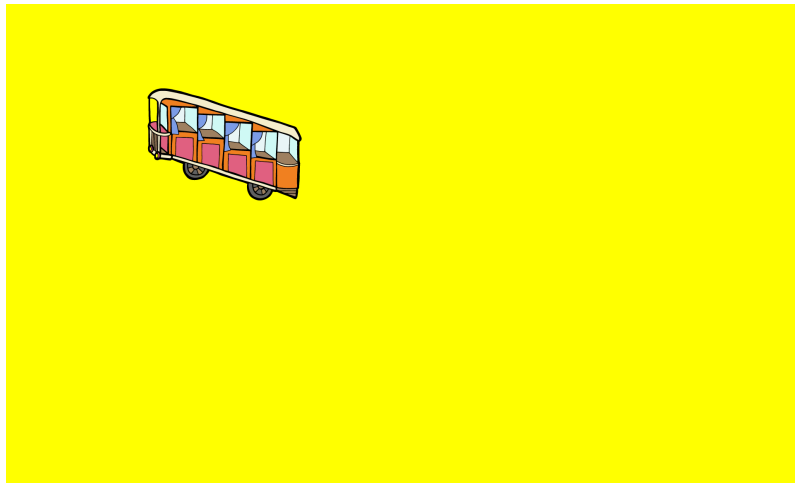
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Example:

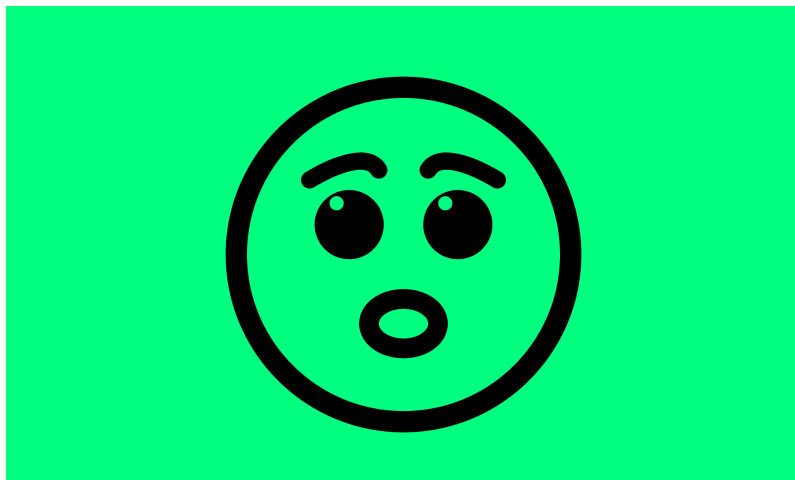
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Gaze Switching horizontal | M\_pos\_1, sw



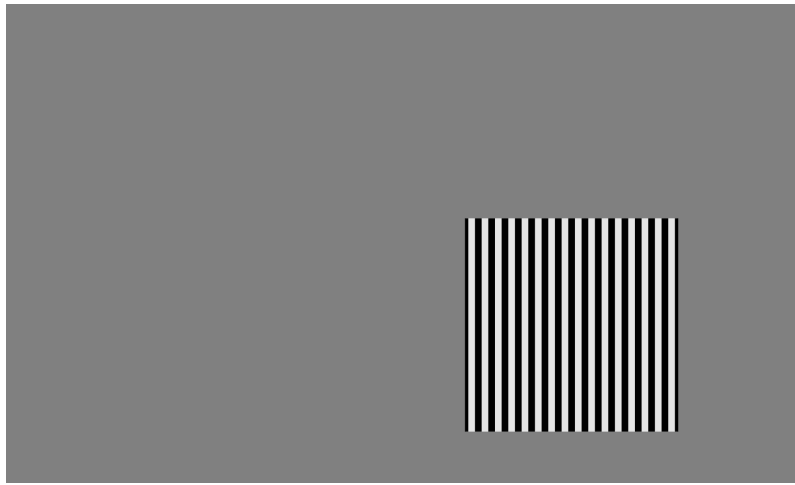
Smooth Pursuit diagonal | L\_col\_3, Bergbahnen



Face Interpretation | XL\_pos\_1

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Frequency Recognition | L\_pos\_1, Gitter



Figure-Ground | L\_col\_2



Clock | XL\_pos\_4

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**7.2. spotPlus**  – Recognize an object and distinguish it from others

**7.2.1. Task**

■ An object will be indicated. It will then appear either singular or multiple with other objects, differentiating in shape and/or color. Locate and name the indicated object.

### 7.2.2. Course of Exercise

- A preview of the requested object properties will be shown.
- Click on the start button or press SPACE.
- The object will appear either singular or multiple with differing objects. The preview can be shown within the task using Shift + H.
- Click on the requested objects.  
If there are only two objects, confirmation with SPACE is possible.

Within exercises, animation, object size, contrast, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [individualization module spotPlus](#)

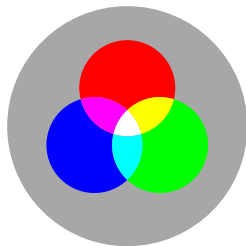
Create individual exercises → [Editor all modules](#)

→ [Editor module spotPlus](#)

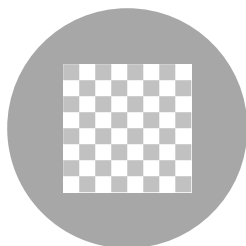
### 7.2.3. Properties



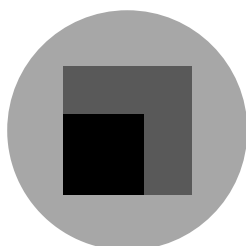
Shape



Color or color combination



Opacity



Size

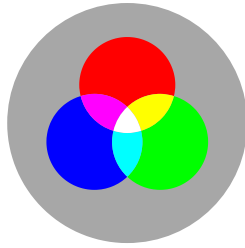
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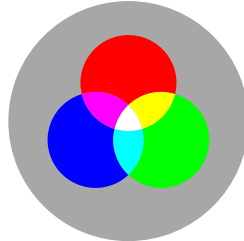
It's possible to search by individual properties or combinations of properties as well.

One property:



Example Task:  
Collect all the blue objects.  
Shape, opacity and size are irrelevant.

Combination of properties:



Example Task:  
Collect all the red triangles.  
Opacity and size are irrelevant.

## 7.2.4. Layout

There are five possibilities to arrange the objects on the screen:

| Code | Art    | Supplement                                                           |
|------|--------|----------------------------------------------------------------------|
| a    | Line   | horizontal, vertical or skewed and diagonal                          |
| b    | Circle |                                                                      |
| c    | Grid   | arranged in a grid, for example 5x4 objects                          |
| d    | Random | minimum distance between objects, distributed over the entire screen |
| e    | Crowd  | minimum distance, the objects move closer                            |

There is a hint to the layout in the title code.

Example: earch and find: Shape S\_neg\_ **c** \_1

Sought in this exercise: Small bright shapes on a dark background arranged in a grid.

## 7.2.5. Exercises

| Type of exercise   | Supplement |
|--------------------|------------|
| Eccentric Fixation | right      |
|                    | left       |
|                    | up         |
|                    | down       |
|                    | random     |
| Visual Field       | circle     |
|                    | right      |
|                    | left       |
|                    | up         |
|                    | down       |
|                    | up right   |

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■

|                      |                                              |
|----------------------|----------------------------------------------|
|                      | up left<br>down right<br>down left<br>random |
| Contrast             |                                              |
| Frequency            | Recognition<br>Differentiation<br>Comparison |
| Color                | Recognition<br>Differentiation               |
| Face                 | Recognition<br>Interpretation                |
| Crowding             | Area<br>Framework<br>Outline<br>Optotypes    |
| Separation           | Area<br>Framework<br>Outline                 |
| Shape                | Differentiation                              |
| Figure-<br>Ground    |                                              |
| Optotypes            | Lea-Symbols<br>Landolt Rings<br>Tumbling E   |
| Character            | Letters<br>Numbers                           |
| Spatial<br>Relations |                                              |
| Alien                |                                              |
| Pattern              | Recognition                                  |
| search<br>and find   | Shape<br>Color<br>Size<br>Shape and Color    |

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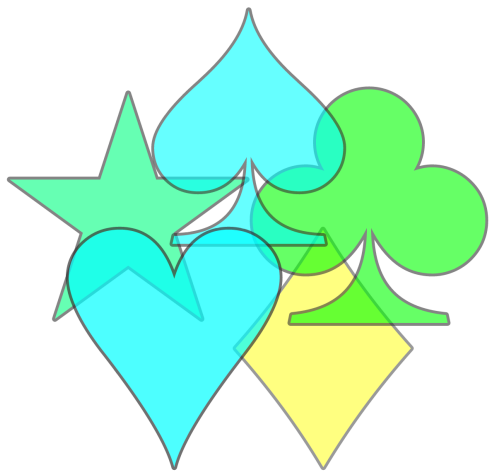
Where is  
...?

Example:

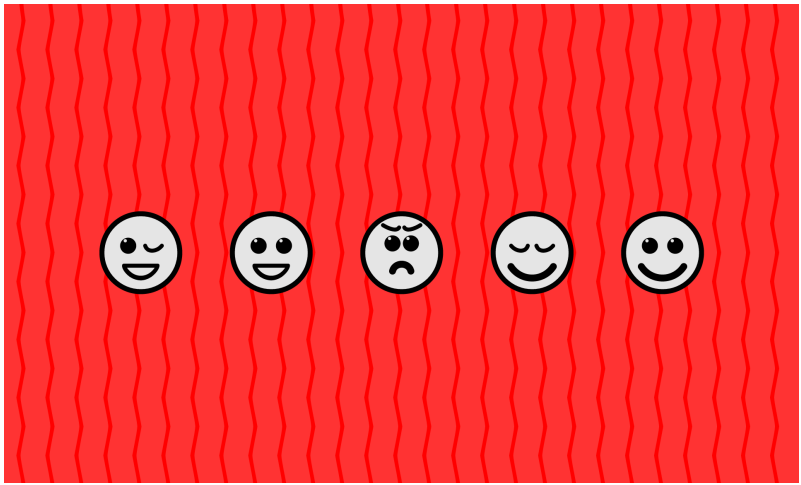




Eccentric Fixation right | M\_neg\_a\_2



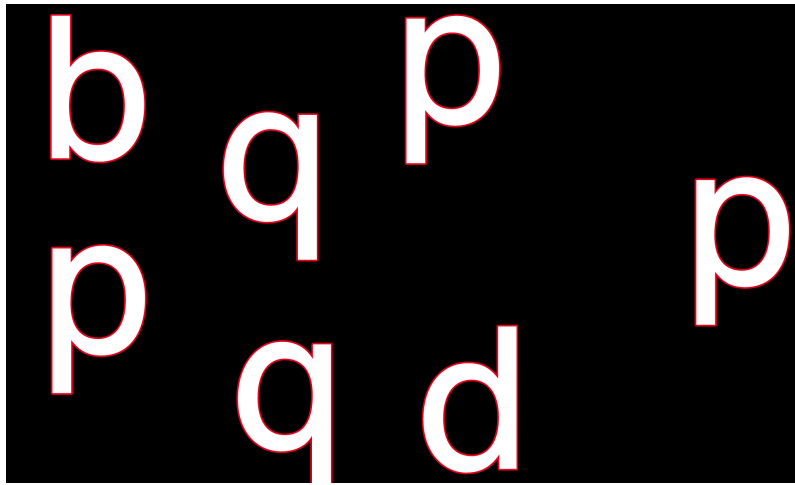
Separation | XL\_col\_b\_1



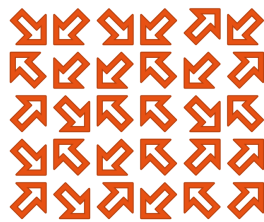
Alien | M\_col\_a\_1, emoticons

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Character Letters | L\_neg\_d\_1



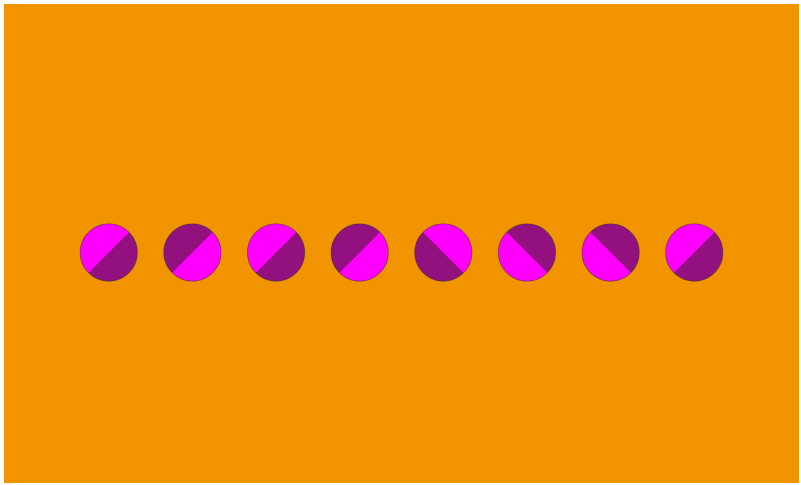
Crowding Framework | S\_pos\_c\_2



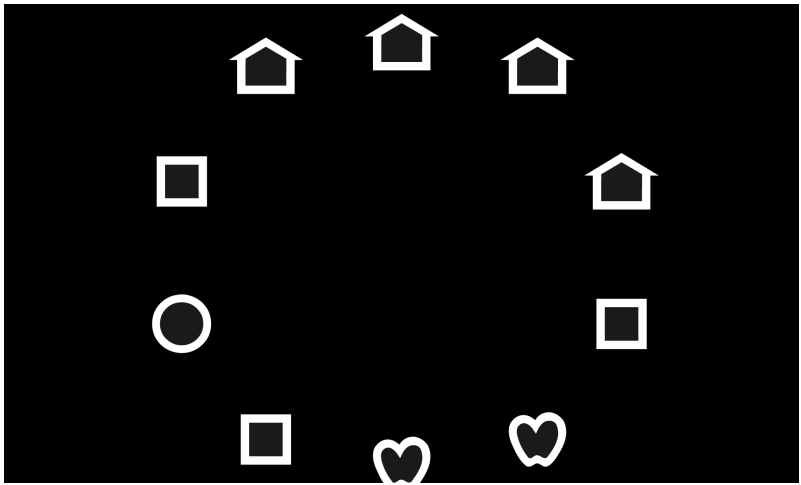
Where is ...? | S\_col\_d\_1, birds

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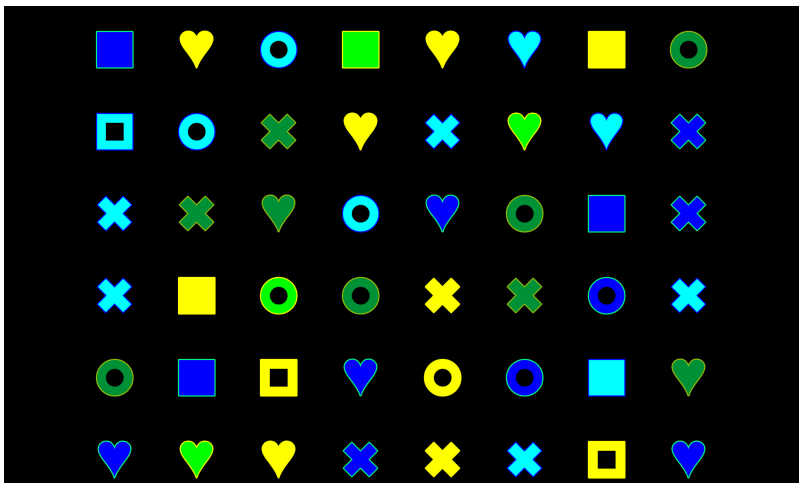
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Line: Spatial Relations | M\_col\_a\_1



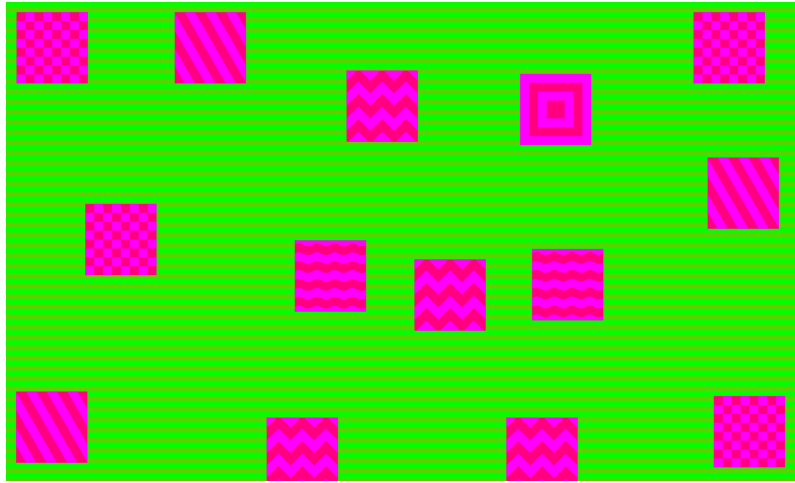
circle: Optotypes: Lea-Symbols | M\_neg\_b\_1



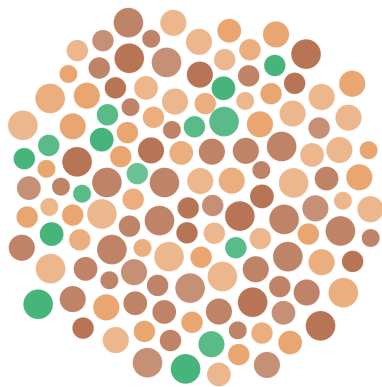
Grid: search and find Color | S\_neg\_c\_1

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random: Frequency Differentiation | M\_col\_d\_1



Crowd: Color Differentiation | XS\_pos\_e\_2

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## 7.3. zoom – Recognize an object 2

### 7.3.1. Task

An object will appear on the screen that is either too small or too big. The size of the object will vary until you recognize it.

Alternative: An object with either low or high opacity will appear on the screen. The opacity of the object will vary.

Stop the variation with the S-key.

### 7.3.2. Course of Exercise

- If necessary, a preview of the requested object will be shown.
- Click on the start button or press SPACE.
- A nobject will appear on the screen that is either too small or too big. The size of the object will vary until you recognize it.
- Alternative: The opacity of the object will vary until you recognize it/until you can't recognize it any more.
- Click on the object.

The variation can be stopped by the S-key.

■ Within exercises, animation, object size, contrast, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [individualization module zoom](#)

Create individual exercises → [Editor all modules](#)

→ [Editor module zoom](#)

### 7.3.3. Properties

Object size and/or opacity will increase < or decrease > either continuously or gradual.

There is a hint to the type of modification in the title code.

Example: Form Recognition XS\_col\_<\_2, fruits

Requested: Fruits on a colored background. Object size increases.

### 7.3.4. Exercises

| Type of exercise    | Supplement                                 |
|---------------------|--------------------------------------------|
| Movement<br>central |                                            |
| Contrast            |                                            |
| Frequency           | Recognition<br>Differentiation             |
| Face                | Recognition<br>Interpretation              |
| Optotypes           | Lea-Symbols<br>Landolt Rings<br>Tumbling E |
| Shape               | Scanning<br>Recognition<br>Discovering     |
| Character           | Letters<br>Numbers                         |

Example:

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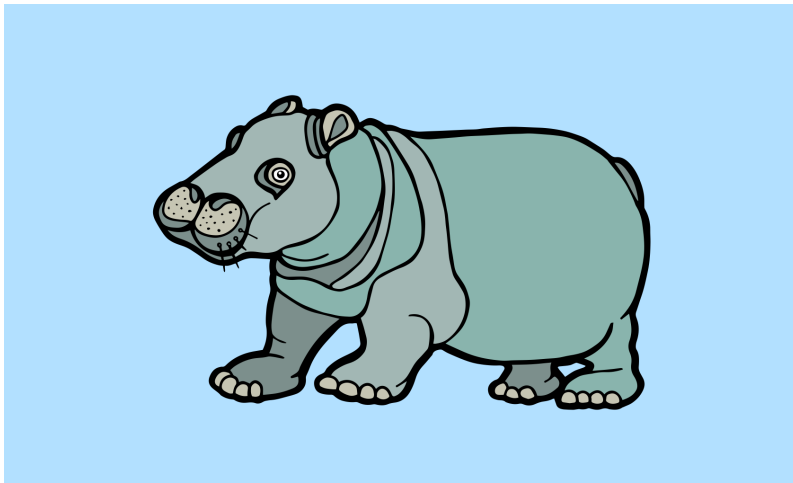
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Shape Recognition | XS\_col\_<\_3, fruits



Shape Scanning | XXL\_col\_>2, animals



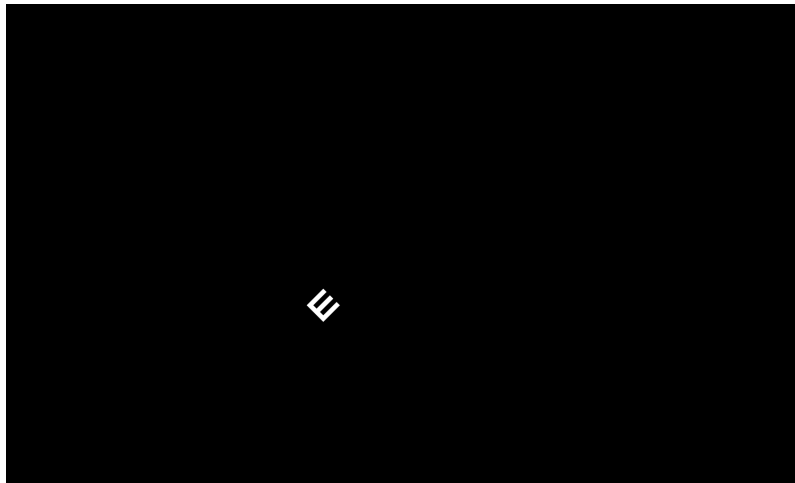
Contrast | XL\_pos\_<\_1, Hiding Heidi

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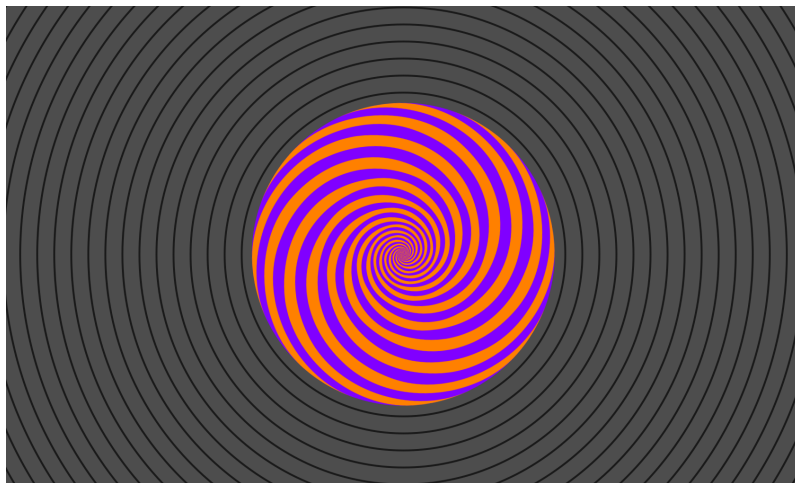
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Frequency Differentiation | M\_col\_<\_1



Optotypes Tumbling E | XS\_neg\_<\_3



Movement central | S\_col\_<\_1

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## 7.4. track – Follow a track

### 7.4.1. Task

Move an object with the mouse, the arrow keys or your finger (touchscreen) along a line.

### 7.4.2. Course of Exercise

- An object on a track will be shown.
- The object that is to be moved, flashes.
- Move it with the mouse, the arrow keys or your finger (touchscreen) along the line.
- Alternatives:
  - A target object is placed at the end of the line.
  - Several target objects are placed along the line.
- Move it with the mouse, the arrow keys or your finger (touchscreen) along the line to the target object(s).
- In the categories without goal you will receive a feedback. It will tell you the number of bumps or falls (optional).
- A feedback at the end of the task will tell you the number of bumps or falls (optional).

Within exercises, line type, width and contrast of the line, animation of target object, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [individualization module](#) **track**

Create individual exercises → [Editor all modules](#)

→ [Editor module](#) **track**

### 7.4.3. Exercises

| Type of exercise          | Supplement                                                                                    |
|---------------------------|-----------------------------------------------------------------------------------------------|
| Stay in lane with goal    | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric shape<br>free shape         |
| Stay in lane without goal | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric shape<br>free shape<br>loop |
| Balancing with goal       | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric shape<br>free shape         |
| Balancing without goal    | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric shape                       |

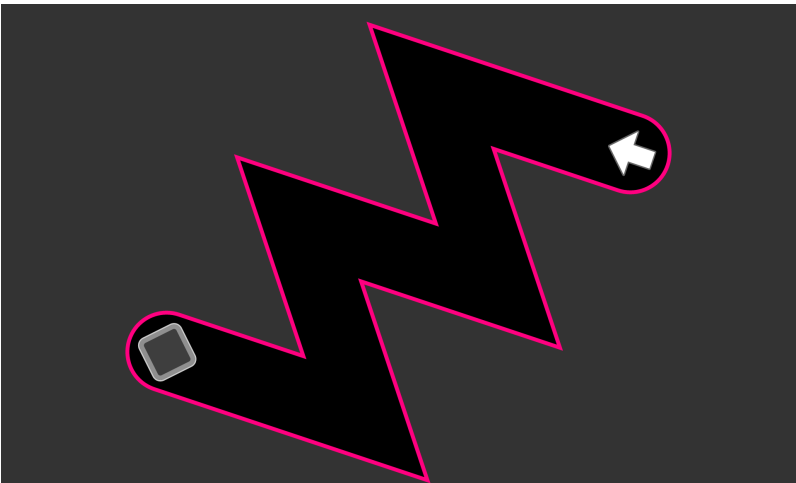
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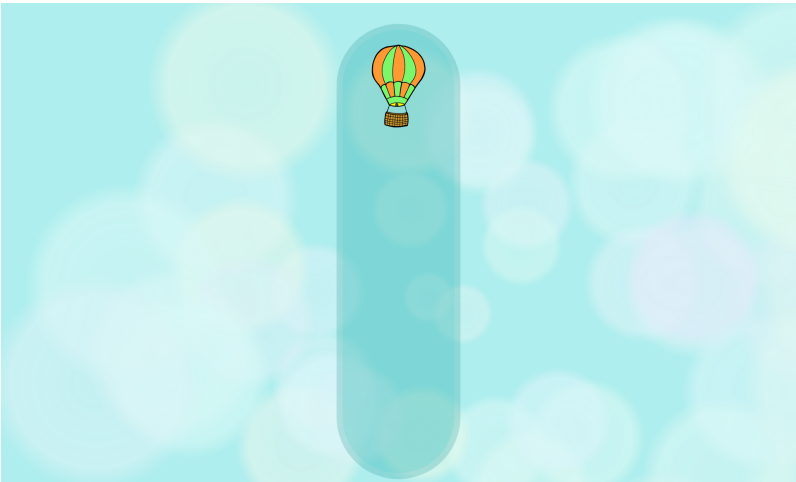
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|            |                 |
|------------|-----------------|
|            | free shape      |
|            | loop            |
|            | straight lines  |
|            | corner          |
| Collecting | curve           |
| goals      | spiral          |
| Track      | stair           |
|            | geometric shape |
|            | free shape      |
|            | straight lines  |
|            | corner          |
| Collecting | curve           |
| goals      | spiral          |
| Line       | stair           |
|            | geometric shape |
|            | free shape      |

Example:



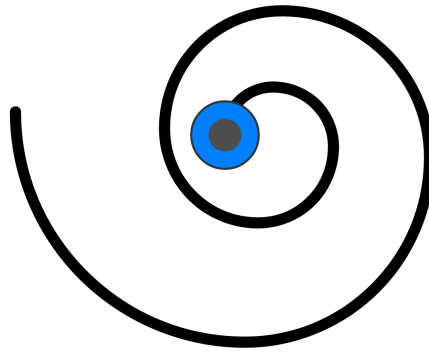
Stay in lane with goal stair | L\_neg\_2



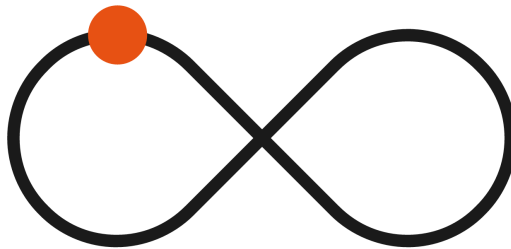
Stay in lane without goal straight lines | L\_col\_5 vertical

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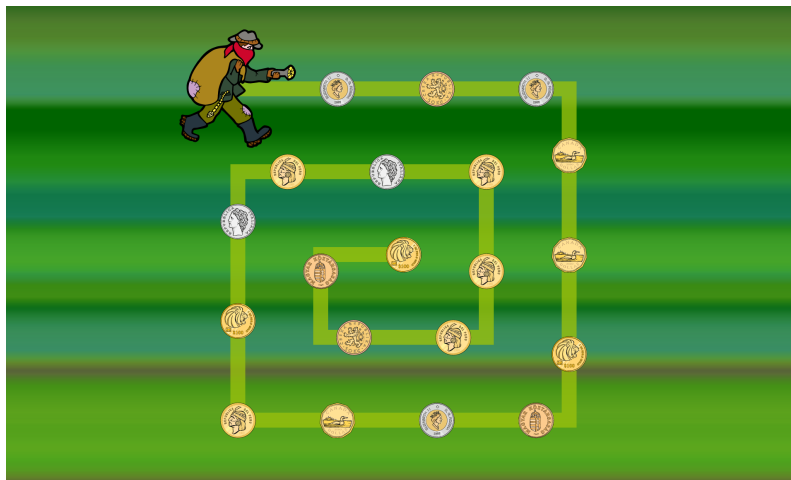




Balancing without goal spiral | M\_pos\_2



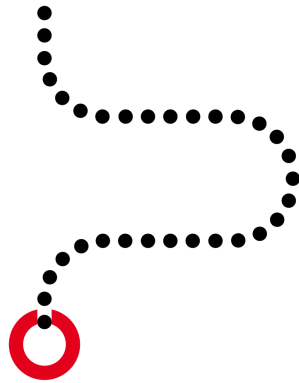
Balancing without goal loop | L\_pos\_7



Collecting goals, Line corner | M\_col\_1

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Collecting goals, Line curve | M\_pos\_2

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## 7.5. trace – Follow an object

### 7.5.1. Task

Move an object with the mouse, the arrow keys or your finger (touchscreen), to follow another object.

### 7.5.2. Course of Exercise

- An object and a target object on a track will be shown.
- The object that is to be moved, flashes.
- As soon as the object is moved, target object will also move. The track will disappear.
- Move the object with the mouse, the arrow keys or your finger (touchscreen) and follow the target object as closely as possible. • The object is not tied to the line. In contrast to the exercises in **track**, it can be moved freely on the screen. • At the end of each task you will receive a feedback. It will show you the precision of your track (a. follow an object) or the number of object catches (b. catch an object) (optional).

Within exercises type of appearance and animation of target object, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [individualization module trace](#)

Create individual exercises → [Editor all modules](#)

→ [Editor module trace](#)

### 7.5.3. Exercises

| Type of exercise | Supplement                                                                            |
|------------------|---------------------------------------------------------------------------------------|
| Follow an object | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric shape<br>free shape |

loop  
random

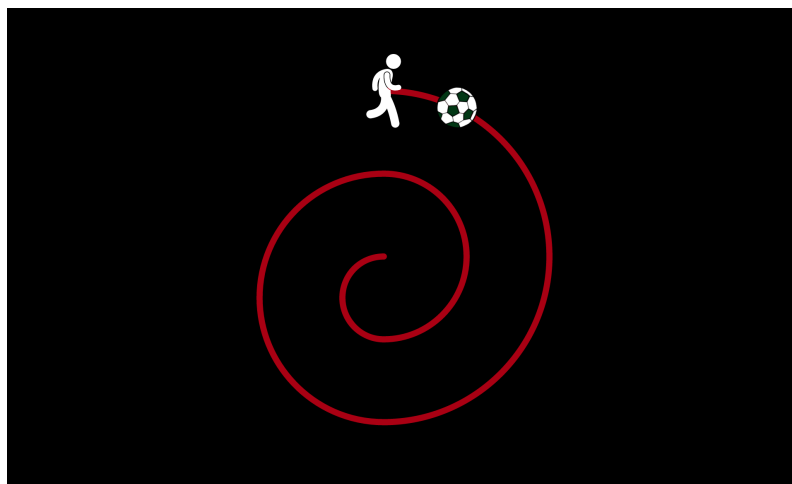
straight lines  
corner  
curve  
spiral  
stair  
geometric shape  
free shape  
loop  
random

Catch  
an  
object

Example:



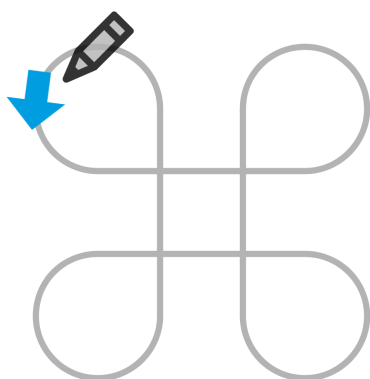
Follow an object corner | XL\_pos\_1



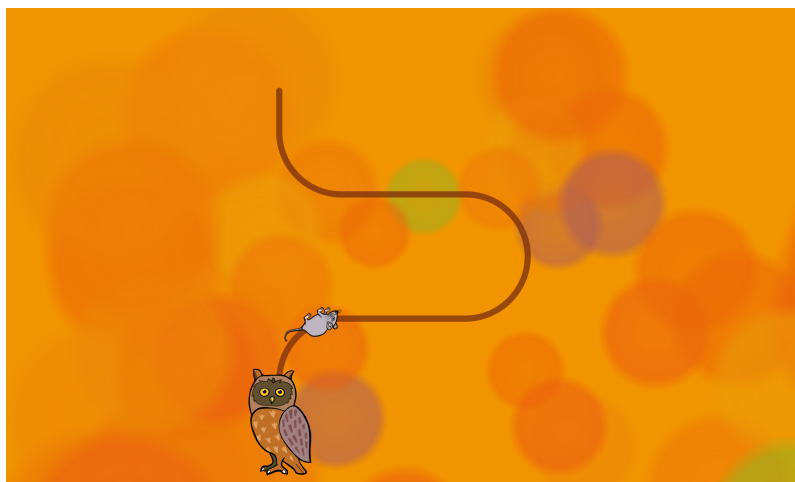
Follow an object spiral | L\_neg\_2

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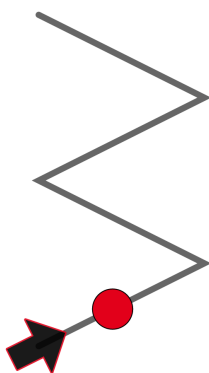
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Follow an object loop | L\_pos\_10



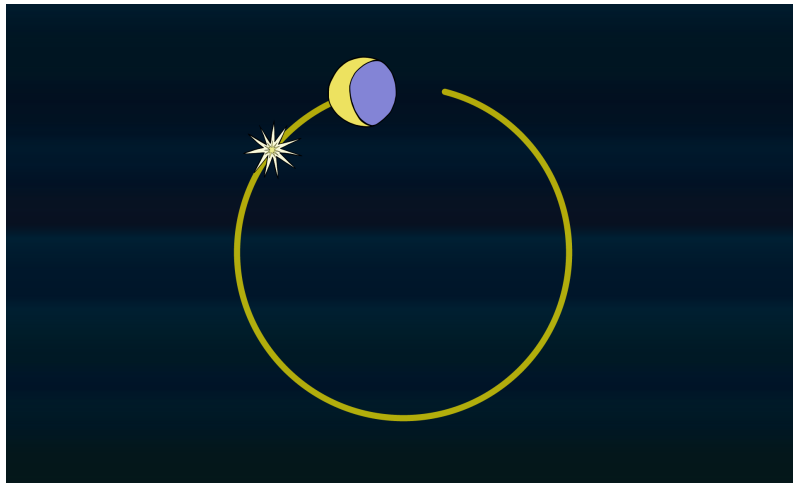
Catch an object curve | M\_col\_1



Catch an object stair | M\_pos\_2

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Catch an object geometric shape | L\_col\_04

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## 7.6. stimula – Stimulation

### 7.6.1. Task

Look at patterns differentiating in color, shape, size or location. Press the E-key or run over the objects with the mouse or finger (touchscreen) for a surprise.

### 7.6.2. Course of Exercise

- A pattern will be shown that is changing color, shape, size or position.
- Press E or touch the highlighted objects to trigger an additional effect.
- Some exercises respond to mouse movements. Touchscreen: Slide your finger on the screen.

Within exercises contrast, movement speed and direction, background color and pattern can be changed using keyboard shortcuts.

→ [Shortcut keys all modules](#)

→ [individualization module](#) **stimula**

Create individual exercises → [Editor all modules](#)

→ [Editor module](#) **stimula**

### 7.6.3. Exercises

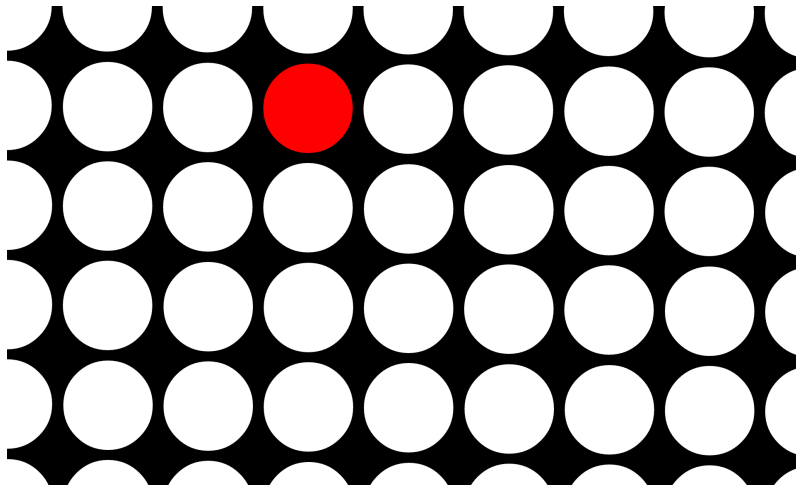
| Type of exercise | Supplement            |
|------------------|-----------------------|
| Spot             |                       |
| Line             |                       |
| Area             |                       |
| Interactive      |                       |
| OKN              | optokinetic nystagmus |

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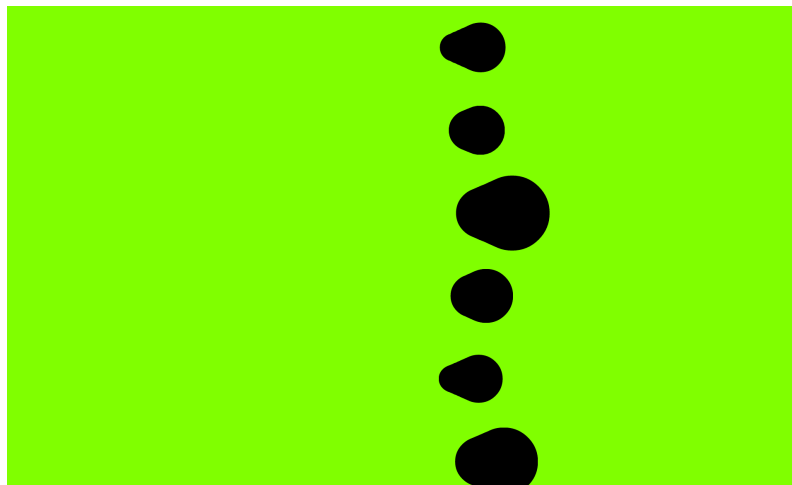
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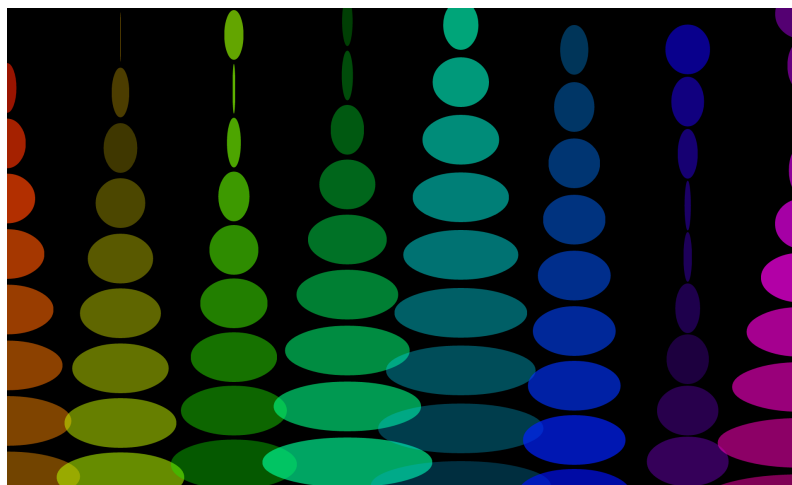
Example:



Stimulation Spot 1000



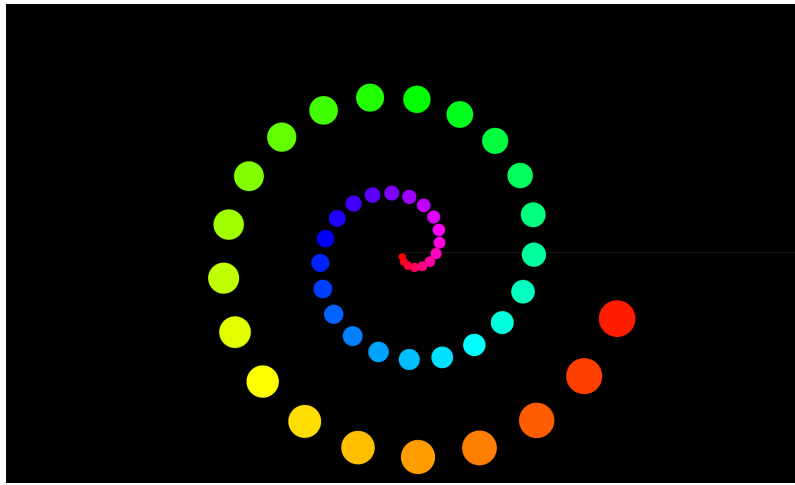
Stimulation Spot 1003



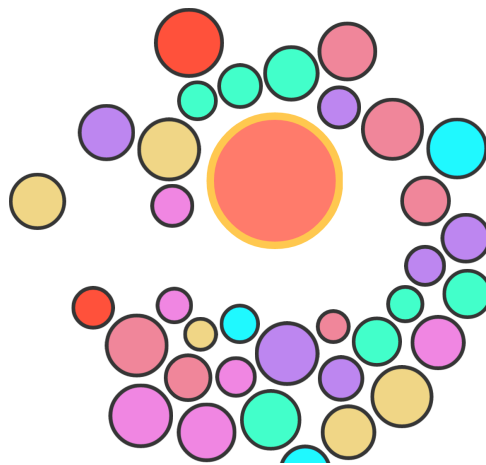
Stimulation Spot 1005

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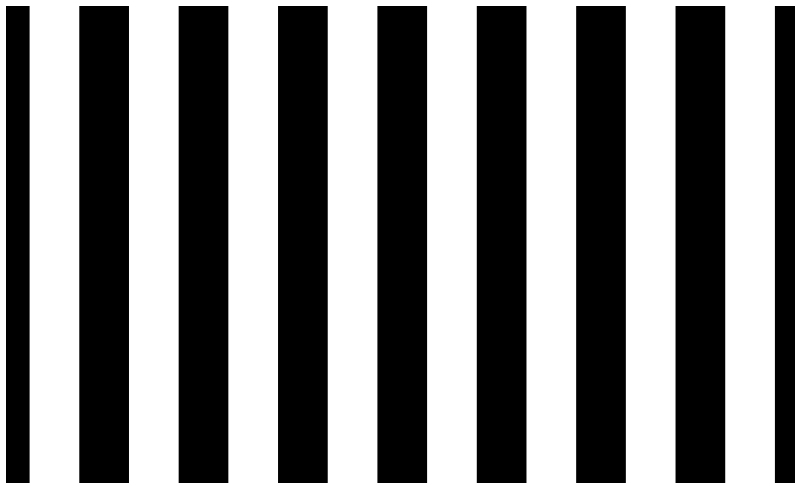
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Stimulation Spot 3000



Stimulation Interactive 8010



Stimulation OKN | L\_pos\_2

→ [Overview of all exercises sorted by exercise type on www.dob.li](http://www.dob.li)

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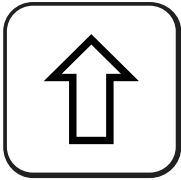
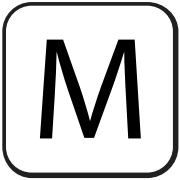
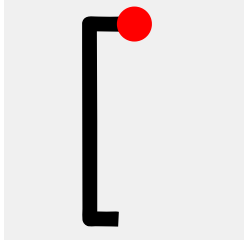
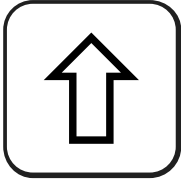
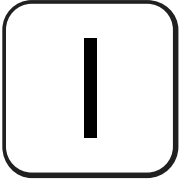
## 8. Program Control Using Keys and Touch Screen

Key commands or gestures on a touchscreen enable students to adapt the visual environment while using the program and therefore matching their individual needs.

Performing gestures: Place your finger on the touchscreen and perform the gesture starting from the red dot. Do not move your finger too jaggedly, articulate the corners well.

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8.1. Program Control

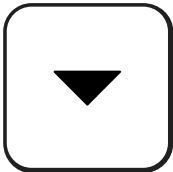
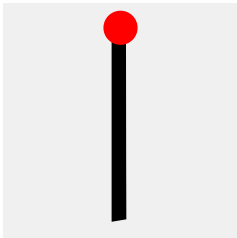
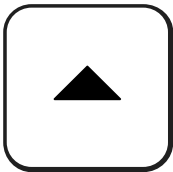
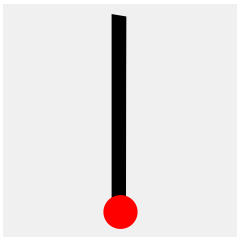
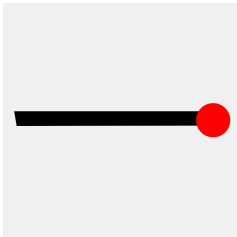
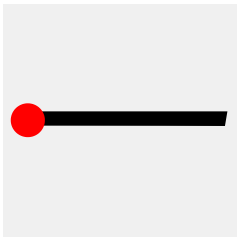
| Keys                                                                                                                                                                | Gestures                                                                           | Description | Effect                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|-----------------------------------------|
|   |  | Menu        | Show / Hide main menu                   |
|   |                                                                                    | Information | Show list of shortcut keys and gestures |

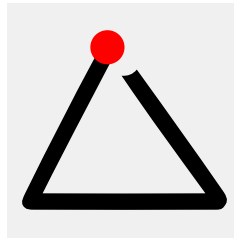
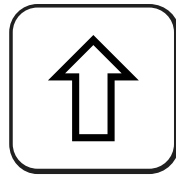
8.2. Within an Exercise

| Keys                                                                                | Gestures                                                                            | Description | Effect                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|------------------------------------------|
|  |  | SPACE       | Start Task / Confirm task                |
|  |  | ENTER       | Start / Quit exercise                    |
|                                                                                     |  | Preferences | Preferences of the current exercise      |
|                                                                                     |  |             | Change between the two background colors |
|                                                                                     |                                                                                     | 1           | 1st background color and pattern         |
|                                                                                     |                                                                                     | 2           | 2nd background color and pattern         |
|                                                                                     |                                                                                     | 3           | Change background pattern <              |
|                                                                                     |                                                                                     | 4           | Change background pattern >              |
|                                                                                     |                                                                                     | 5           | Reduce size of background pattern        |
|                                                                                     |                                                                                     | 6           | Increase size of background pattern      |
|                                                                                     |                                                                                     | 7           | Reduce distance of background pattern    |
|                                                                                     |                                                                                     | 8           | Increase distance of background pattern  |
|                                                                                     |                                                                                     | 0           | No background pattern                    |
|                                                                                     |                                                                                     | Normal      | Restore the initial settings of the task |

- Normal
- Restore the initial settings of the exercise
- Move background left
- Move background right
- Move background up
- Move background down
- Slow down background movement
- Accelerate background movement

### 8.3. Individualization spot : fixed object

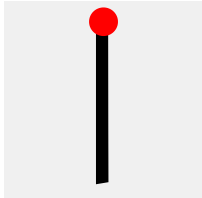
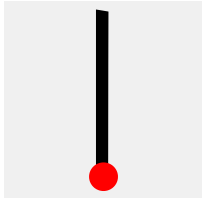
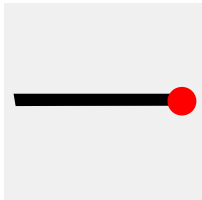
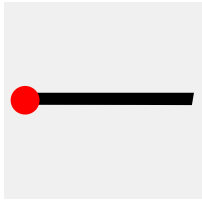
| Keys                                                                                | Gestures                                                                             | Description | Effect                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------|
|    |    | DOWN        | Reduce the object                                                               |
|  |  | UP          | Enlarge the object                                                              |
|  |  | LEFT        | Reduce the object's opacity                                                     |
|  |  | RIGHT       | Increase the object's opacity                                                   |
|  |                                                                                      | Animation   | Start / Stop the animation<br>Flicker (opacity) →<br>Stop → Up / Down<br>→ Stop |



Hint

Show the  
requested object  
*Only tasks with  
preview*

#### 8.4. Individualization spot : object in motion

| Keys                                                                                                                                                                                                                                                        | Gestures                                                                             | Description | Effect                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|
|                                                                                                                                                                            |    | DOWN        | Slow down the movement                                                           |
|                                                                                                                                                                            |   | UP          | Accelerate the movement                                                          |
|    |                                                                                      | DOWN        | Reduce the object                                                                |
|    |                                                                                      | UP          | Enlarge the object                                                               |
|                                                                                                                                                                          |  | LEFT        | Reduce the object's opacity                                                      |
|                                                                                                                                                                          |  | RIGHT       | Increase the object's opacity                                                    |
|                                                                                                                                                                          |                                                                                      | Animation   | Start / Stop the animation<br><i>Flicker (opacity) → Stop → up / down → Stop</i> |



Start /  
Stop

Start / Stop  
movement



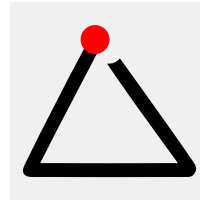
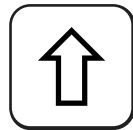
Direction

Reverse direction  
of movement>



Typ

Change type of  
movement  
*stop + go → yoyo  
hard → yoyo soft →  
continuous*



Hint

Show the  
requested object  
*Only tasks with  
preview*

## 8.5. Individualization spotPlus



| Keys | Gestures | Description | Effect                                                 |
|------|----------|-------------|--------------------------------------------------------|
|      |          | DOWN        | Reduce<br>requested<br>objects                         |
|      |          | UP          | Enlarge<br>requested<br>objects                        |
|      |          | LEFT        | Reduce<br>requested<br>objects' opacity                |
|      |          | RIGHT       | Increase<br>requested<br>objects' opacity              |
|      |          | Animation   | Start / Stop the<br>requested<br>objects'<br>animation |

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*Flicker (opacity)*  
 → Stop → up /  
 down → Stop



DOWN

Reduce all  
objects



UP

Enlarge all  
objects



LEFT

Reduce opacity  
of all objects



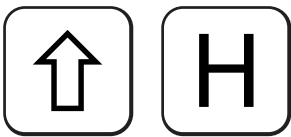
RIGHT

Increase opacity  
of all objects



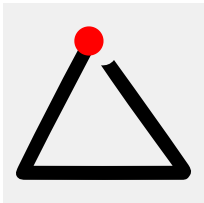
Animation

Start / Stop the  
animation of all  
objects  
*Flicker (opacity)*  
 → Stop → up /  
 down → Stop



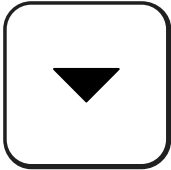
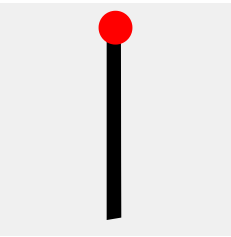
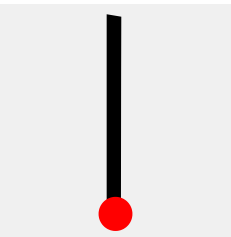
Hint

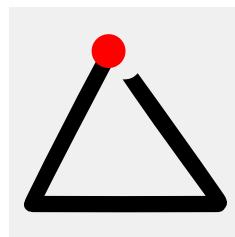
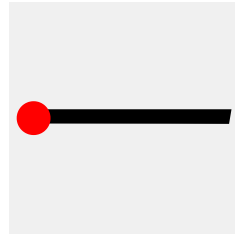
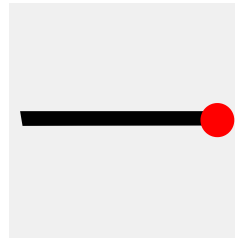
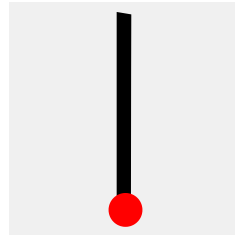
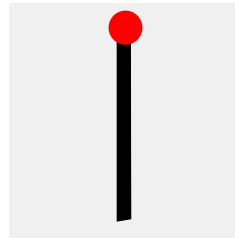
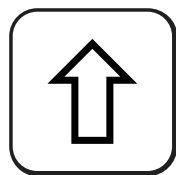
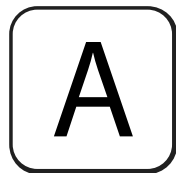
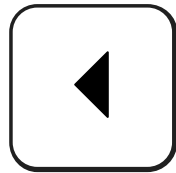
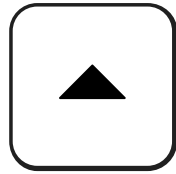
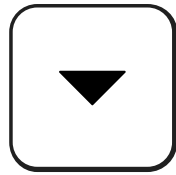
Show the  
requested object  
*Only tasks with  
preview*



8.6. Individualization zoom



| Keys                                                                                | Gestures                                                                             | Description | Effect    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|-----------|
|  |  | DOWN        | Zoom slow |
|  |  | UP          | Zoom fast |



DOWN

Reduce the object  
*at the end of*  
*zooming*

UP

Enlarge the object  
*at the end of*  
*zooming*

LEFT

Reduce the object's  
opacity

RIGHT

Increase the  
object's opacity

Animation

Start / Stop the  
animation  
*Flicker (opacity) →*  
*Stop → up / down*  
*→ Stop*

Start /  
Stop

Start / Stop  
movement

Hint

Show the  
requested object  
*Only tasks with*  
*preview*

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## 8.7. Individualization track



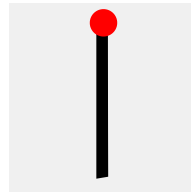
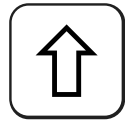
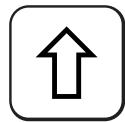
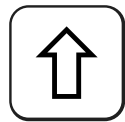
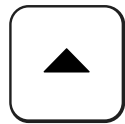
Keys

Gestures

Description

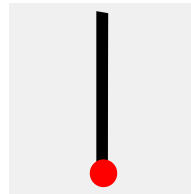
Effect

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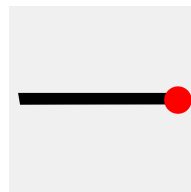
DOWN

Move down object



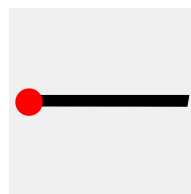
UP

Move up object



LEFT

Move object left



RIGHT

Move object right

Animation

Start / Stop the animation of the target object

Typ

Change type of line  
*dotted* → *dashed 1* → *dashed 2* → *dashed 3* → *dashed 4* → *dashed 5* → *solid*

DOWN

Reduce line width

UP

Increase line width

LEFT

Reduce track's opacity

RIGHT

Increase track's opacity

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## 8.8. Individualization trace

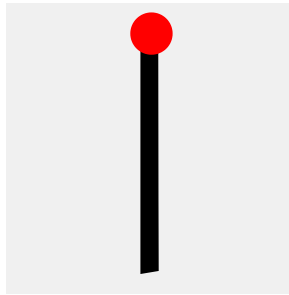
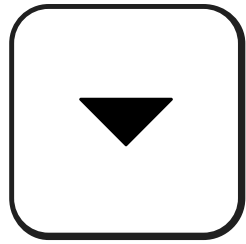


Keys

Gestures

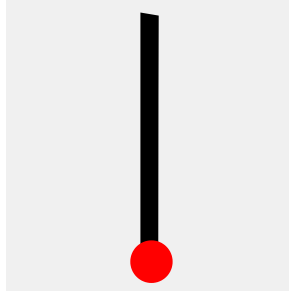
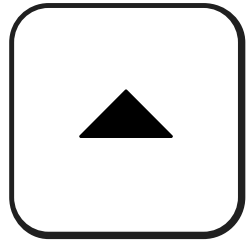
Description

Effect



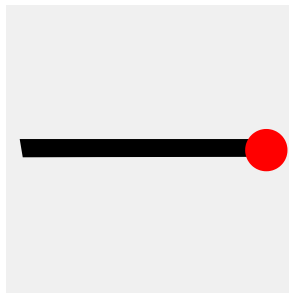
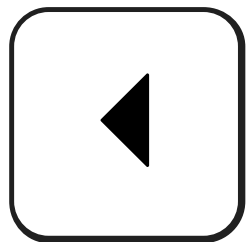
DOWN

Move down object



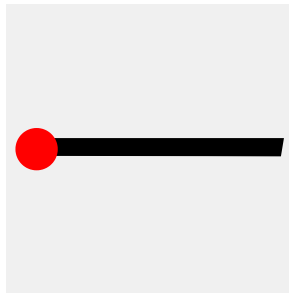
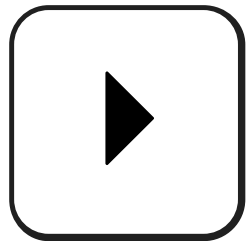
UP

Move up object



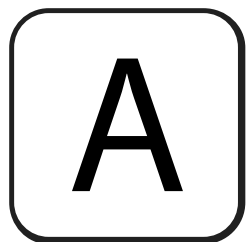
LEFT

Move object left



RIGHT

Move object right



Animation

Start / Stop the animation of the target object

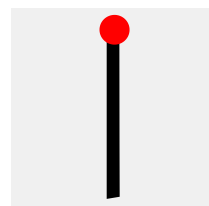
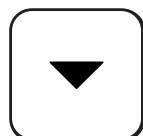
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## 8.9. Individualization stimula



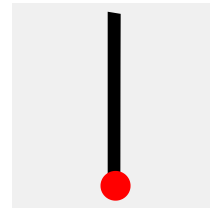
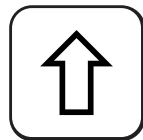
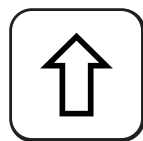
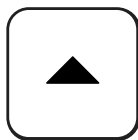
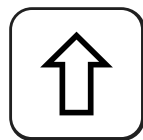
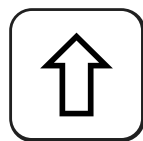
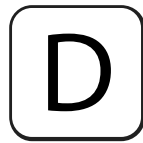
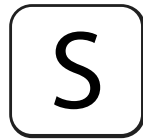
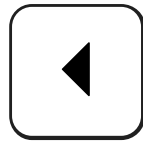
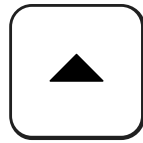
| Keys | Gestures | Description | Effect |
|------|----------|-------------|--------|
|------|----------|-------------|--------|



DOWN

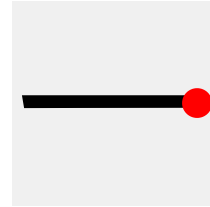
Slow down movement

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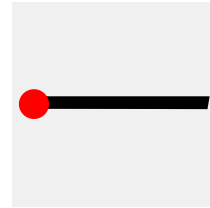
UP

Accelerate movement



LEFT

Reduce objects' opacity



RIGHT

Increase objects' opacity

Effekt

Special effect

Start / Stop

Start / Stop movement

Direction

Reverse direction of movement

DOWN

stimula 8000: Reduce the object  
*stimula 8000 only*

UP

stimula 8000: Enlarge the object  
*stimula 8000 only*

LEFT

OKN: Less stripes (narrow stripes)  
*OKN only*

RIGHT

OKN: More stripes (wide stripes)  
*OKN only*

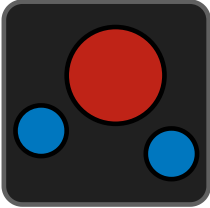
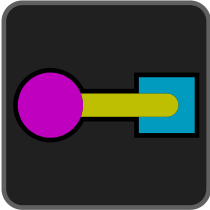
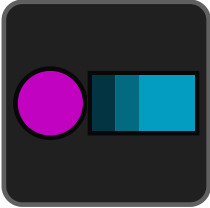
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## 9. Overview of all modules and skills

9.1. Module

| Modul                                                                               | Aim             |                                                    |
|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------|
|    | <b>spot</b>     | Recognize an object 1                              |
|    | <b>spotPlus</b> | Recognize an object and distinguish it from others |
|    | <b>zoom</b>     | Recognize an object 2                              |
|   | <b>track</b>    | Follow a track                                     |
|  | <b>trace</b>    | Follow an object                                   |
|  | <b>stimula</b>  | Stimulation                                        |

9.2. Exercise Categories and Primary Skill

| Category           | Supplement  | Primary Skills                           |
|--------------------|-------------|------------------------------------------|
| <b>Stimulation</b> | Spot        | Attention   Shifting Attention           |
|                    | Line        | Attention   Shifting Attention           |
|                    | Area        | Attention   Sustaining Attention         |
|                    | Interactive | Coordination   Hand and Eye Coordination |
|                    | OKN         | Motility   Optokinetic Nystagmus         |

|                                      |                                                                                                  |                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Fixation</b>                      | random<br>peripheral<br>right-left<br>peripheral up-<br>down                                     | Motility   Fixation                      |
| <b>Eccentric<br/>Fixation</b>        | right<br>left<br>up<br>down<br>random<br>circle                                                  | Attention   Visual Field                 |
| <b>Visual Field</b>                  | right<br>left<br>up<br>down<br>up right<br>up left<br>down right<br>down left<br>random          | Attention   Visual Field                 |
| <b>Gaze<br/>Switching</b>            | horizontal<br>vertical<br>diagonal                                                               | Motility   Saccadic jumps                |
| <b>Smooth<br/>Pursuit</b>            | horizontal<br>vertical<br>diagonal<br>circle<br>square<br>triangle                               | Motility   Smooth Pursuit                |
| <b>Stay in lane<br/>with goal</b>    | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape         | Coordination   Hand and Eye Coordination |
| <b>Stay in lane<br/>without goal</b> | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape<br>loop | Coordination   Hand and Eye Coordination |
| <b>Balancing<br/>with goal</b>       | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape         | Coordination   Hand and Eye Coordination |
| <b>Balancing<br/>without goal</b>    | straight lines<br>corner                                                                         | Coordination   Hand and Eye Coordination |



|                                |                                                                                          |                                                                                                 |
|--------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                | curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape<br>loop                     |                                                                                                 |
|                                | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape | Coordination   Hand and Eye Coordination                                                        |
| <b>Collecting goals, Track</b> |                                                                                          |                                                                                                 |
|                                | straight lines<br>corner<br>curve<br>spiral<br>stair<br>geometric<br>shape<br>free shape | Coordination   Hand and Eye Coordination                                                        |
| <b>Collecting goals, Line</b>  |                                                                                          |                                                                                                 |
| <b>Object Pursuit</b>          |                                                                                          | Coordination   Hand and Eye Coordination                                                        |
| <b>Movement</b>                | zentral                                                                                  | Motion Perception   zentral                                                                     |
| <b>Contrast</b>                |                                                                                          | Contrast Perception   Contrast                                                                  |
| <b>Frequency</b>               | Recognition<br>Differentiation<br>Comparison                                             | Contrast Perception   Frequency                                                                 |
| <b>Face</b>                    | Recognition<br>Interpretation                                                            | Face Perception   Recognition<br>Face Perception   Interpretation                               |
| <b>Color</b>                   | Recognition<br>Differentiation<br>Matching                                               | Color Recognition   Color<br>Color Recognition   Color<br>Color Recognition   Color Association |
| <b>Crowding</b>                | Area<br>Framework<br>Outline<br>Optotypes                                                | Separation Ability   Crowding                                                                   |
| <b>Separation</b>              | Area<br>Framework<br>Outline                                                             | Separation Ability   Figure-Ground Perception                                                   |
| <b>Figure-Ground</b>           |                                                                                          | Separation Ability   Figure-Ground Perception                                                   |
| <b>Optotypes</b>               | Lea-Symbols<br>Landolt Rings<br>Tumbling E                                               | Shape Recognition   Figure                                                                      |
| <b>Shape</b>                   | Scanning<br>Recognition<br>Differentiation<br>Discovering<br>Completion                  | Motility   Visual Scanning<br>Shape Recognition   Figure                                        |

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|                          |                                                                               |                                       |
|--------------------------|-------------------------------------------------------------------------------|---------------------------------------|
| <b>Clock</b>             |                                                                               | Shape Recognition   Figure            |
| <b>Character</b>         | Letters<br>Numbers                                                            | Shape Recognition   Figure            |
| <b>Spatial Relations</b> |                                                                               | Shape Recognition   Spatial Relations |
| <b>Alien</b>             |                                                                               | Shape Recognition   Figure            |
| <b>Bilder</b>            | Reproduction<br>Completion                                                    | Shape Recognition   Figure            |
| <b>Pattern</b>           | Recognition<br>Reproduction<br>Completion                                     | Visual Memory   Pattern               |
| <b>Arrangement</b>       | Size<br>Color<br>Family                                                       | Visual Memory   Sequences             |
| <b>search and find</b>   | Shape<br>Color<br>Size<br>Shape and Color<br>Shape and Size<br>Color and Size | Strategies   Search Strategies        |
| <b>Where is ...?</b>     |                                                                               | Strategies   Search Strategies        |
| <b>Paint</b>             |                                                                               |                                       |

### 9.3. Skills and Assignment of Modules

| Skill                                                                                                       | Subskill             | Assignment of Modules             |
|-------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------|
|  <b>Visual Attention</b> | Sustaining Attention | spot, zoom, track, trace, stimula |
|                                                                                                             | Shifting Attention   | spot, track, trace, stimula       |
|                                                                                                             | Visual Field         | spot, spotPlus, track, trace      |
|                                                                                                             | Dividing Attention   | track, trace                      |
|  <b>Motility</b>         | Fixation             | alle                              |
|                                                                                                             | Visual Scanning      | spot, zoom, track, stimula        |
|                                                                                                             | Visual Comparison    | spotPlus, track                   |
|                                                                                                             | Saccadic jumps       | spot, track, trace                |
|                                                                                                             | Smooth Pursuit       | spot, track, trace                |



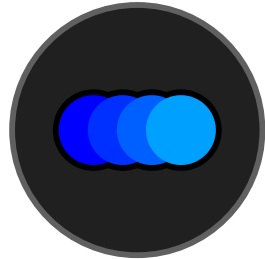
## Coordination

Optokinetic  
Nystagmus

stimula

Hand and Eye  
Coordination

track, trace



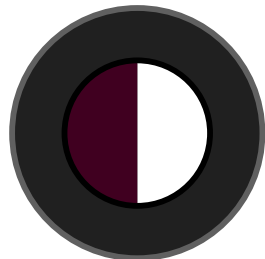
## Motion Perception

Central Motion

spot, zoom, track, trace,  
stimula

Radial Motion

spot, zoom, track, trace,  
stimula



## Contrast Perception

Contrast

spot, spotPlus, zoom

Spatial Frequency

spot, spotPlus, zoom



## Face Perception

Recognition

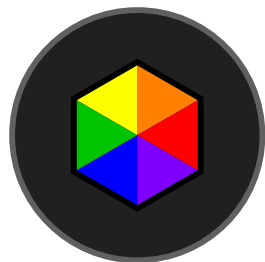
spot, spotPlus

Interpretation

spot, spotPlus

Completion

spot, spotPlus



## Color Recognition

Color

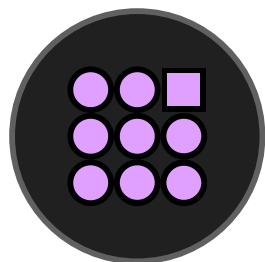
spot, spotPlus

Grey Black White

spot, spotPlus

Color Association

spot, spotPlus



## Separation Ability

Figure-Ground  
Perception

spot, spotPlus

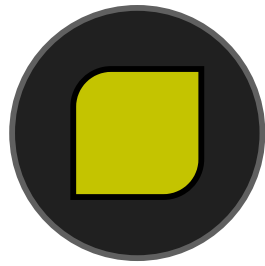
Crowding

spotPlus

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### Shape Recognition

|                   |                      |
|-------------------|----------------------|
| Figure            | spot, spotPlus, zoom |
| Size              | spotPlus, zoom       |
| Spatial Relations | spot, spotPlus       |



### Visual Memory

|                   |          |
|-------------------|----------|
| Short-term Memory | spotPlus |
| Pattern           | spotPlus |
| Sequences         | spotPlus |



### Strategies

|                   |          |
|-------------------|----------|
| Search Strategies | spotPlus |
|-------------------|----------|

## 10. Evaluation exercise

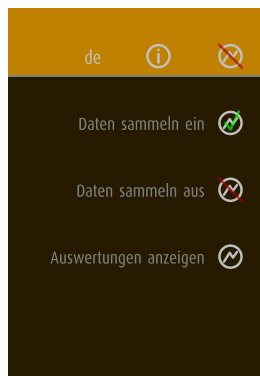
While you are working, dob plus captures any typing and clicks on your computer screen, whether these are right or wrong and measures the time span between any action on the computer screen.

A simple click on the  button in the main menu will open evaluation settings.

### Note

Exercises are not evaluated in module **stimula**.

### 10.1. Evaluation settings



Exercise data are stored.

Data are not stored.

Access to the stored evaluations

### Note

dob can only store a limited number of exercises. The number depends on the complexity of the data. Take screenshots of important evaluations to store them permanently.

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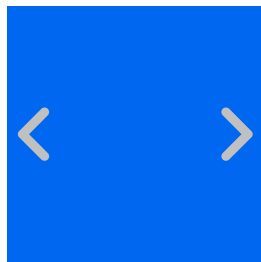
## 10.2. General options

The screenshot shows the 'Evaluation exercise' interface. At the top, there's a blue header with a gear icon, the text 'Evaluation exercise', navigation arrows, the 'spot' logo, the exercise name 'Optotypes Lea-Symbols XL\_pos\_2, colored', and a home icon. Below the header, a grey bar shows 'Jacob / identified all shapes'. The main area is divided into two columns. The left column contains a table with task results, and the right column shows a visual feedback area with four shapes (circle, square, heart, house) each with a green number (1, 2, 3, 4) indicating the correct answer.

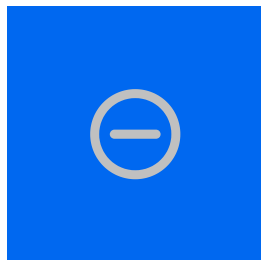
| Exercise: Duration   |                   | Date                | Time  |
|----------------------|-------------------|---------------------|-------|
|                      |                   | 2016-08-24          | 07:56 |
| Total Duration [sec] |                   | Sum Tasks [sec]     |       |
| 40.0                 |                   | 23.7                |       |
| Task / Opacity       | Error after [sec] | Correct after [sec] |       |
| 1 1.00               |                   | 4.4                 |       |
| 2 1.00               |                   | 6.1                 |       |
| 3 1.00               |                   | 6.0                 |       |
| 4 1.00               |                   | 7.1                 |       |
| Task: Duration       |                   | Average [sec]       |       |
|                      |                   | 5.9                 |       |

Notes, objects and values

Activities on the screen



Navigate through evaluations



Delete evaluation



Module



Exercise name

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Thumbnail



Back to the main menu

The screenshot shows a software interface for an evaluation exercise. At the top, a blue header bar contains a gear icon and the text 'Evaluation exercise'. Below this, a grey bar displays the user's name 'Jacob / identified all shapes'. The main area is divided into two columns. The left column shows 'Exercise: Duration' with a table of four tasks, each with a 'Task / Specify' header and a '1.00' value. The right column shows 'Total Duration' with a value of '4' and a 'Task list' label. At the bottom, there is a 'Task: Duration' label.

| Task / Specify | 1.00 |
|----------------|------|
| 1              | 1.00 |
| 2              | 1.00 |
| 3              | 1.00 |
| 4              | 1.00 |

Personal notes

Date and time

Total Duration:: Time per complete exercise

Sum Tasks: Duration minus the time for confirmations and rewards = pure exercise time

Task list

Average time per task

### 10.3. Evaluation examples

Depending on module or exercise category, evaluation shows different values and presents the activities on a single or on several screens.

#### 10.3.1. Evaluation 1:

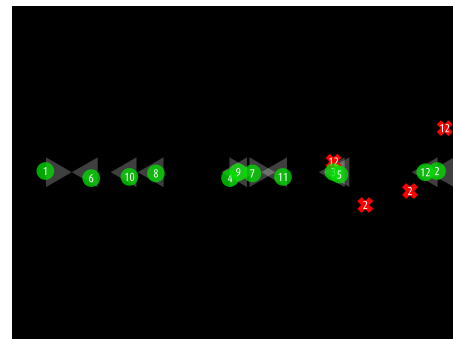
##### Modul spot – Gaze Switching horizontal

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| Evaluation exercise                                                                 |                      |                     | spot | Gaze Switching horizontal S_neg_1 |
|-------------------------------------------------------------------------------------|----------------------|---------------------|------|-----------------------------------|
| Jacob / Difficulties on the right - animated object in Task 12 to support detection |                      |                     |      |                                   |
|                                                                                     | Date                 | Time                |      |                                   |
|                                                                                     | 2016-08-24           | 16:07               |      |                                   |
| Exercise: Duration                                                                  | Total Duration [sec] | Sum Tasks [sec]     |      |                                   |
|                                                                                     | 58.0                 | 58.0                |      |                                   |
| Task / Opacity                                                                      | Error after [sec]    | Correct after [sec] |      |                                   |
| 1 1.00                                                                              |                      | 2.3                 |      |                                   |
| 2 1.00                                                                              | 4.5 7.5              | 11.2                |      |                                   |
| 3 1.00                                                                              |                      | 4.8                 |      |                                   |
| 4 1.00                                                                              |                      | 1.9                 |      |                                   |
| 5 1.00                                                                              |                      | 3.0                 |      |                                   |
| 6 1.00                                                                              |                      | 2.2                 |      |                                   |
| 7 1.00                                                                              |                      | 3.4                 |      |                                   |
| 8 1.00                                                                              |                      | 1.9                 |      |                                   |
| 9 1.00                                                                              |                      | 2.3                 |      |                                   |
| 10 1.00                                                                             |                      | 2.4                 |      |                                   |
| 11 1.00                                                                             |                      | 3.0                 |      |                                   |
| 12 1.00                                                                             | 5.7 10.5             | 19.6                |      |                                   |
| Task: Duration                                                                      | Average [sec]        |                     |      |                                   |
|                                                                                     | 4.8                  |                     |      |                                   |



Task / Opacity / Time between beginning task and click / Thumbnail object

Click outside any object error time

Task 2:

2 Clicks on the left side underneath the object

Task 12:

2 Clicks on the left side above the object

#### Observations and interpretations

- Needs much more time for objects at the right edge of the screen.
- At the right side many clicks outside the objects.
- Restrictions of the visual field?

The activities on the screen are displayed on one screen for following exercise categories:

- Fixation spot
- Gaze Switching spot
- Visual Field spot, spotPlus

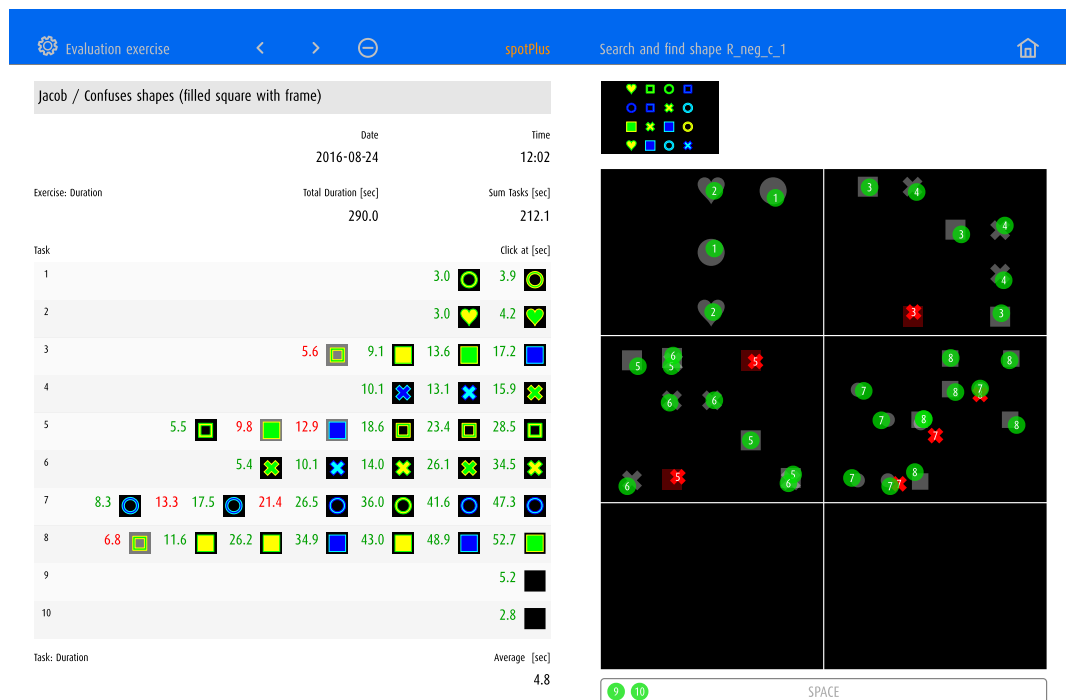
### 10.3.2. Evaluation 2:

#### Modul spotPlus – Search and find shape

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Task / Time until click on the correct object / Object

Wrong Time until click on the wrong object / Object

Task 3, 5, 8:

Click on the wrong object

Outside Time until click outside the object / Object

Task 7:

Klickt 2x clicks beside object

Skipped task (SPACE)

Task 9 and 10:

breaking off

### Observations and interpretations

- Confuses shapes (filled square with frame)
- Nos ystematic search
- Overwhelmed with increasing number of objects
- Practice search strategies

Activities are displayed on 6 screens.

Exercises with more than 6 tasks share clicks of several tasks (e.g. task 1 and 2) on one screen.

### 10.3.3. Evaluation 3: Modul zoom – Contrast

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Evaluation exercise
<
>
zoom
Face interpretation L\_pos\_<\_1

Jacob / Faster detection of objects on the left side
😊

Date  
2016-08-24  
Time  
16:42

Exercise: Duration  
Total Duration [sec]  
58.0  
Sum Tasks [sec]  
57.9

| Task | Opacity | from | to   | Click at | Duration [sec] |   |
|------|---------|------|------|----------|----------------|---|
| 1    |         | 0.00 | 1.00 | 0.28     | 2.8            | 😊 |
| 2    |         | 0.00 | 1.00 | 0.77     | 7.7            | 😊 |
| 3    |         | 0.00 | 1.00 | 0.70     | 7.0            | 😊 |
| 4    |         | 0.00 | 1.00 | 0.81     | 8.1            | 😊 |
| 5    |         | 0.00 | 1.00 | 0.22     | 2.2            | 😊 |
| 6    |         | 0.00 | 1.00 | 0.39     | 3.9            | 😊 |
| 7    |         | 0.00 | 1.00 | 0.61     | 6.1            | 😊 |
| 8    |         | 0.00 | 1.00 | 0.18     | 1.8            | 😊 |
| 9    |         | 0.00 | 1.00 | 0.83     | 8.3            | 😊 |
| 10   |         | 0.00 | 1.00 | 1.00     | 10.0           | 😊 |

Task: Duration  
Average [sec]  
5.8

Task / Opacity: Change from 0 to 100% / Opacity when clicking /  
Time until click / Object

e.g. Task 3:  
Object detected at 70% opacity after 7 seconds

Clicks outside object

Task 2 and 9:  
One click outside object

#### Observations and interpretations

- Enjoys working with emoticons
- Can interpret facial expressions
- Faster detection of objects on the left side
- Restrictions of the visual field?

Activities are displayed on 6 screens.

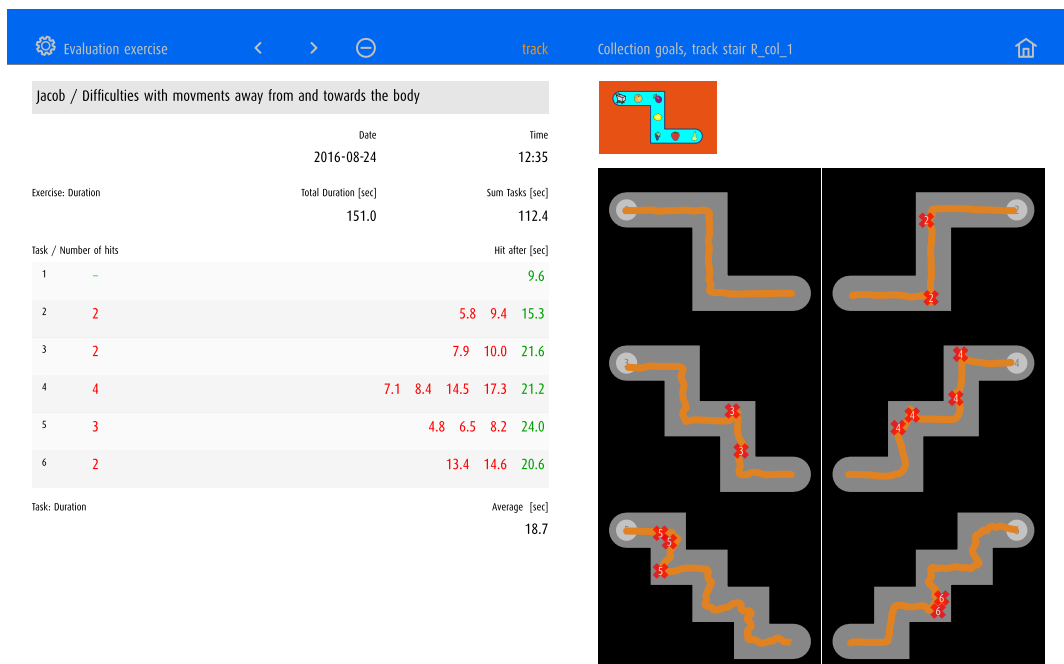
Exercises with more than 6 tasks share clicks of several tasks (e.g. task 5 and 6) on one screen.

### 10.3.4. Evaluation 4: Modul track – Collecting goals

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Task / Time until reaching the target Task 1:  
No collision

Time until collision

Task 2:

Collided after 5.8 and 9.4 seconds on vertically mounted track.  
Reached target at 15.3 seconds.

#### Observations and interpretations

- Knows the collected objects
- Increasing muscle spasms
- Difficulties with movements away from and towards the body

The 6 tasks can be displayed on six different screens.

## 11. Versions

dob, dob plus and dob pro are available as iOS application for iPads or as an online version.

|                                        | App version                                                            | Online version                                                                       |
|----------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| License                                | Perpetual license                                                      | Annual license                                                                       |
|                                        | Device-bound                                                           | Device-independent                                                                   |
| Program control                        | By gestures<br>Supports shortcut keys with external bluetooth keyboard | With shortcut keys<br>If a touchscreen is available: with shortcut keys and gestures |
| Individualization within the exercises | Limited possibilities<br>Control by gestures                           | Extended possibilities<br>With shortcut keys (and gestures)                          |

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dob is the basic version for learners. The training contains 10 fixed exercises on the most important visual skills. dob plus contains the entire range of exercises from dob pro. It comprises around 2500 exercises, organized by visual competence or module. dob pro Full version for therapists, coaches and teachers, containing more than 2500 exercises for the training and observation of 11 basic visual skills and tools to assist individual support planning.

Learn more about dob, dob plus and dob pro: [www.dob.li](http://www.dob.li)

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## 12. Appendix

### 12.1. Keyboard shortcuts and touchscreen gestures

List of all keyboard commands and gestures for controlling the module: [www.dob.li](http://www.dob.li)

### 12.2. Objects

List of all objects: [www.dob.li](http://www.dob.li)

There are objects on the following topics:

Geometric surfaces  
Geometric frames  
Frequency circle  
Frequency square  
Frequency rectangular  
Lea-Symbols  
Landolt Rings  
Tumbling E  
Spatial Relations  
Emoticon  
Spooky Objects  
Icon  
Dice  
Digits  
Mathematical Symbols  
Capital letters  
Lower case  
Clock  
Traffic signs  
Flags  
Confetti  
Treasure  
Animals  
Plants  
Nature diverse  
Vehicles  
Building  
Faces  
Household  
Food  
Game  
School  
Tool  
Musical instruments  
Special

### 12.3. Tracks track, trace

Track list: [www.dob.li](http://www.dob.li)

There are track types for the following topics:

straight lines: horizontal, vertical  
straight lines: diagonal, slanted  
corner: one  
corners: several  
curve: one  
curves: several

■  
spiral  
stair  
geometric shape  
free shape  
loop

## 13. Thanks

The development of dob was made possible thanks to the generosity of the following institutions:

Blinden-Leuchtturm Zürich

Ella Gattiker-Liechi-Stiftung

ERNST GÖHNER STIFTUNG

Ernst Göhner Stiftung

Hans Konrad Rahn Stiftung

Rahn + Bodmer Co.

Roches-Utiger Stiftung



Schweizerischer Blinden- und Sehbehindertenverband SBV

SZB, Schweizerischer Zentralverein für das Blindenwesen

Staub Kaiser Stiftung

Stiftung Bertly Maikler



Stiftung Denk an mich

Stiftung für blinde und sehbehinderte Kinder und Jugendliche Zollikofen

Stiftung für das behinderte Kind

Stiftung Solidago



visoparents schweiz

## 14. Note

### Photosensitive Warning

A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Exposure to certain patterns or backgrounds on a computer screen may induce an epileptic seizure in these individuals. Certain conditions may induce previously undetected epileptic symptoms even in persons who have no history of prior seizures or epilepsy.

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