

# Azahar project

together in autism





Azahar for smartphones and tablets

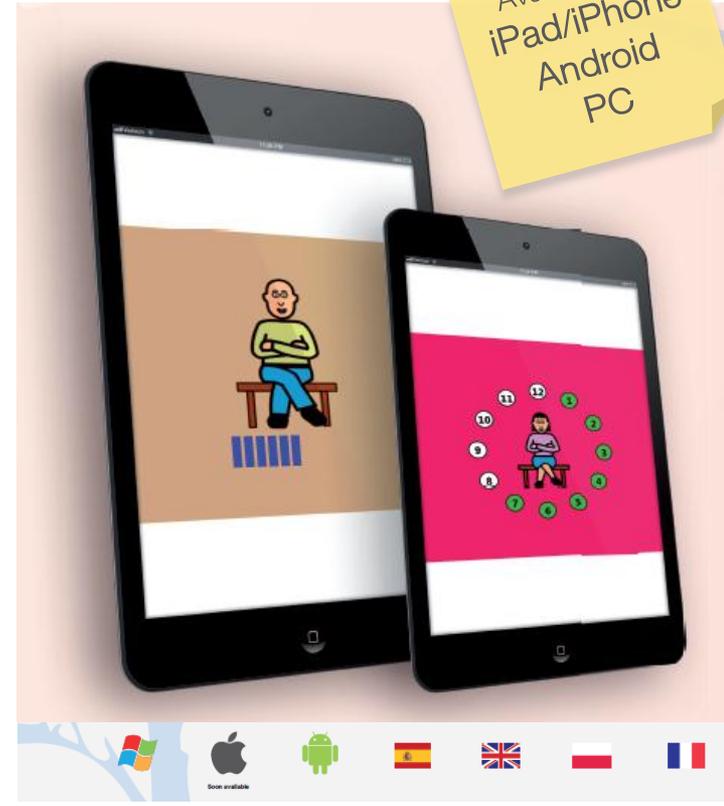
<http://www.proyectoazahar.org>





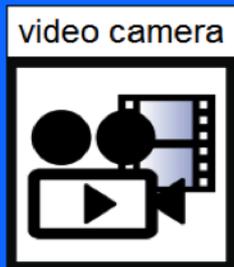
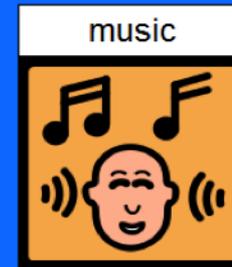
Available for:  
iPad/iPhone  
Android  
PC

- Azahar project is a **set of free applications** for communication, planning and leisure which help improve the QoL and independence of people with low functioning autism
- the apps contain **pictograms, images and sounds** that can be adapted by and for each user. In addition personal photos, pics or voices can be added, ensuring maximum customization
- the project was launched some years ago for Windows SO. Presently, **adapted versions for Android and iOS** have also been developed





- controlled, structured and predictable environment
- Azahar is based on the **TEACCH** programme philosophy for offering a clear visual structure
- It can be adapted to the specific and individual needs



Different apps in the same environment



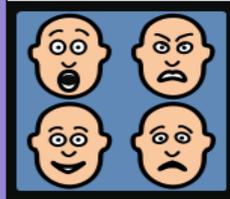
# Communication using images – HELLO & PHRASES



make phrases



emotions



eat

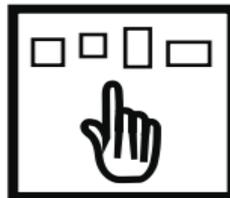


clothes



## A simple AAC

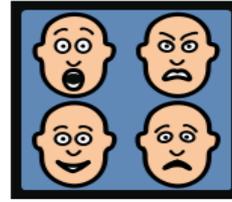
It can be adapted to the preferences and complexity level appropriate for the person who is going to use it. This allows the content to be chosen depending on whether the user is able to manage categories and compose sentences.



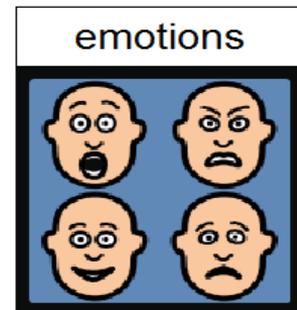
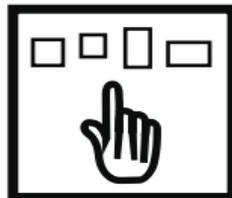
communicate



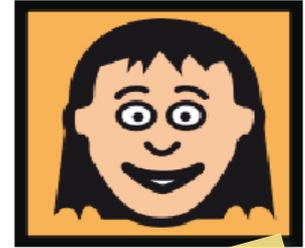
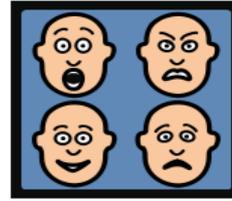
# Communication using images – HELLO & PHRASES



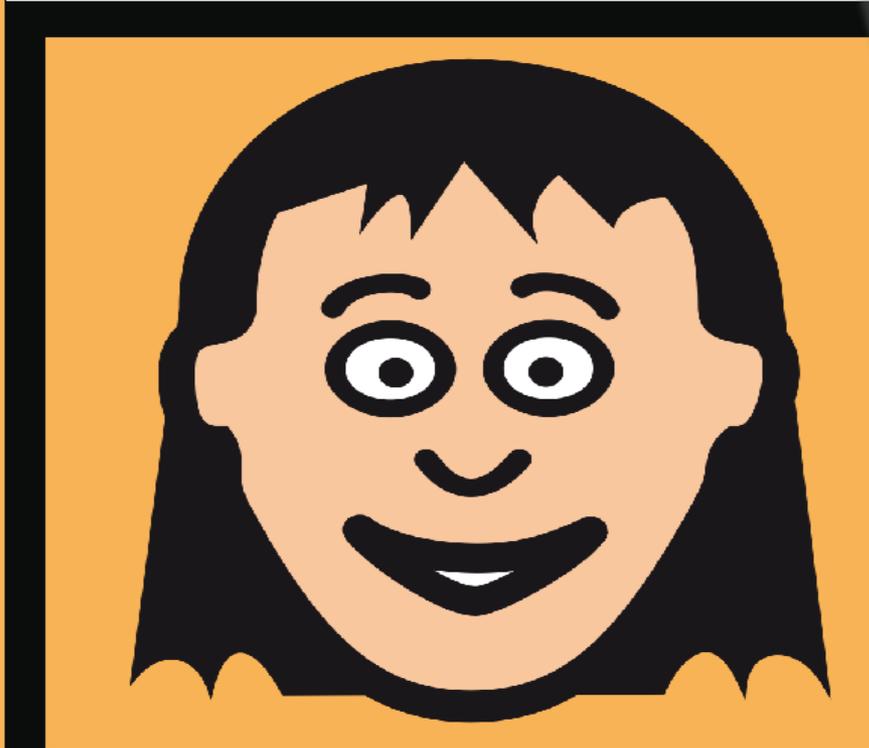
e.g. Inside the emotions category you can include as many pictos or images as you want to



# Communication using images – HELLO & PHRASES

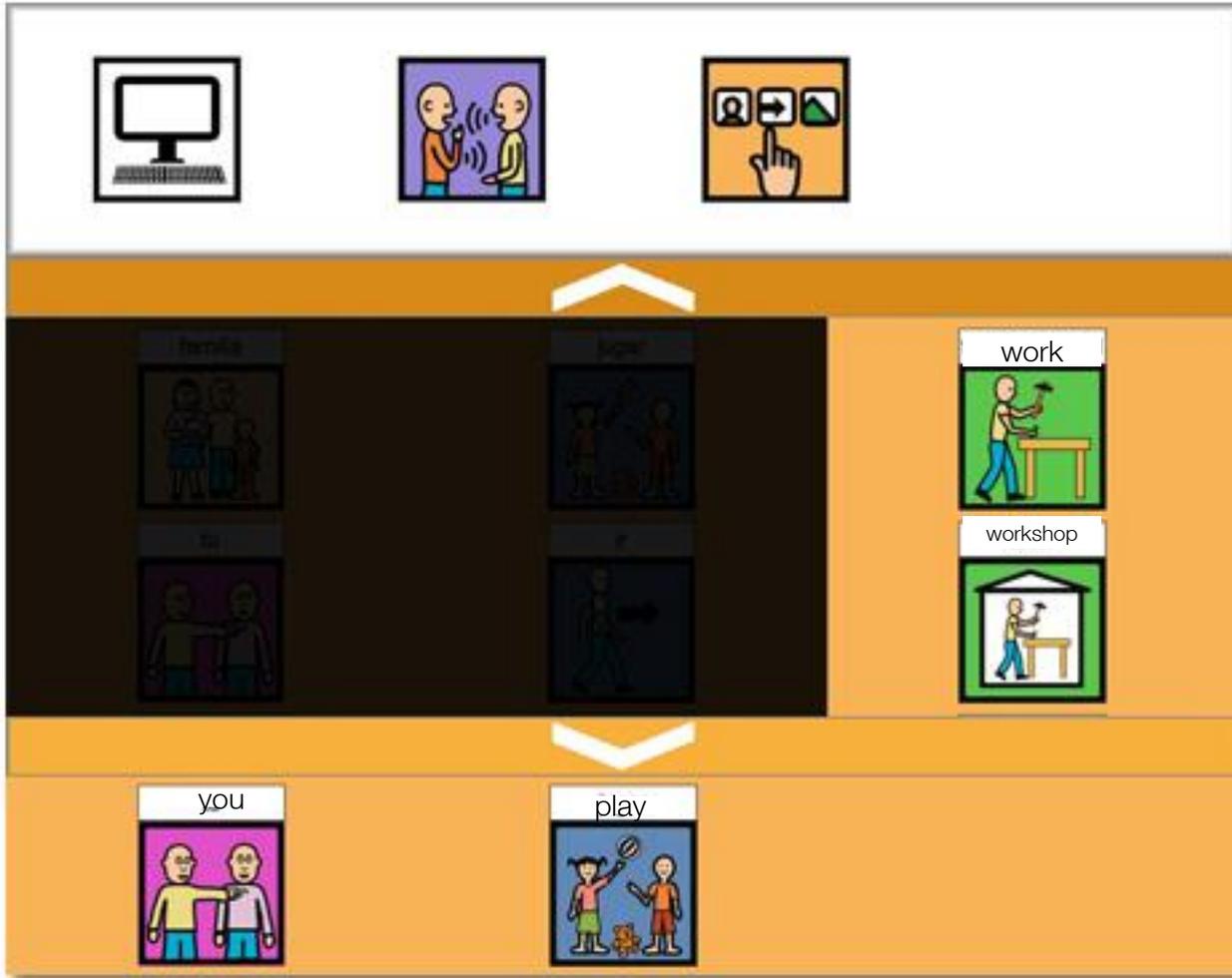


happy



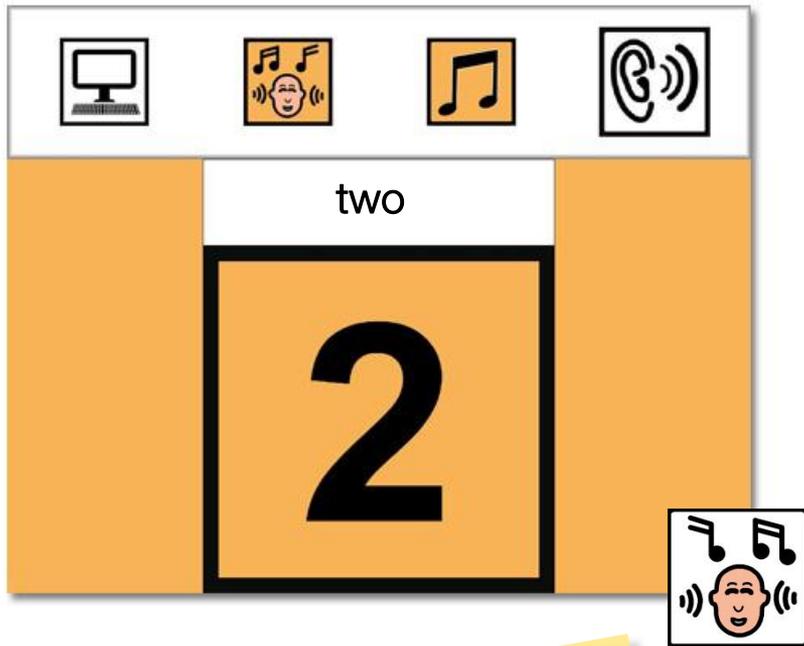
The header is what we call  
“The Step Guide” which is a  
visual guide that helps the user  
to identify: where he is, what  
he’s doing and all the steps  
needed to get to this point:  
“Step1: communication – step  
2: emotions- step 3: happy”

# Communication using images – HELLO & PHRASES



You can also activate the option "Making Phrases"

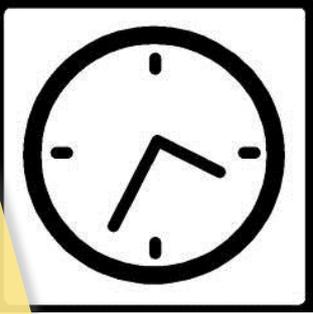
# Leisure activities – MUSIC, PICTURES & VIDEOS



This applications offer the opportunity to manage music, video an pictures in an accessible and simple way, for example playing a song or select an artist, taking or looking at pictures just by touching an image!

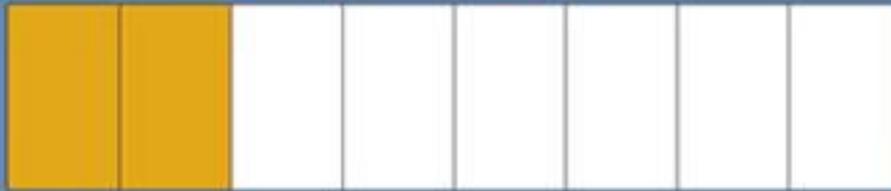
# Understanding the concept of time – TIC-TAC

visible, audible, tangible



A **TIMER** designed to aid understanding and management of time. It makes it possible to visualize the duration and passing of time, accompanied with pictograms or images to identify the activity underway or a period of waiting.

For example: brushing teeth



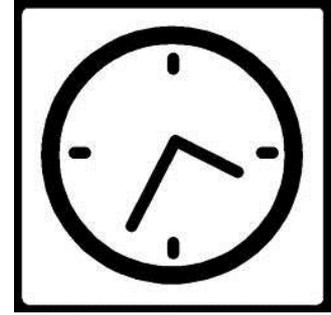
“They have difficulties to go ‘beyond the information’, ‘seeing beyond the literal’. So how can they understand what ‘invisible time’ is? ” Theo Peeters (2007, 2008)



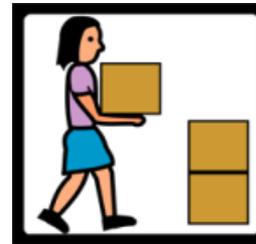
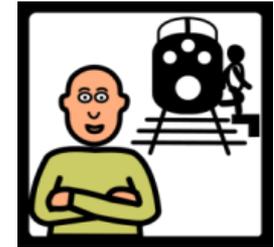
**AZAHAR**

# Understanding the concept of time – TIC-TAC

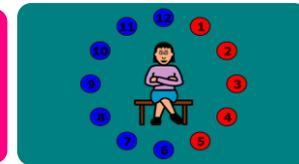
visible, audible, tangible



- How much time do I have to finish this?
- How long can I have to do the activity I´m enjoying so much?
- How long do I have to wait for them to pick me up?



➤The TIC-TAC tool has been designed to be used for waiting periods, free time, working and at times of sensory overload

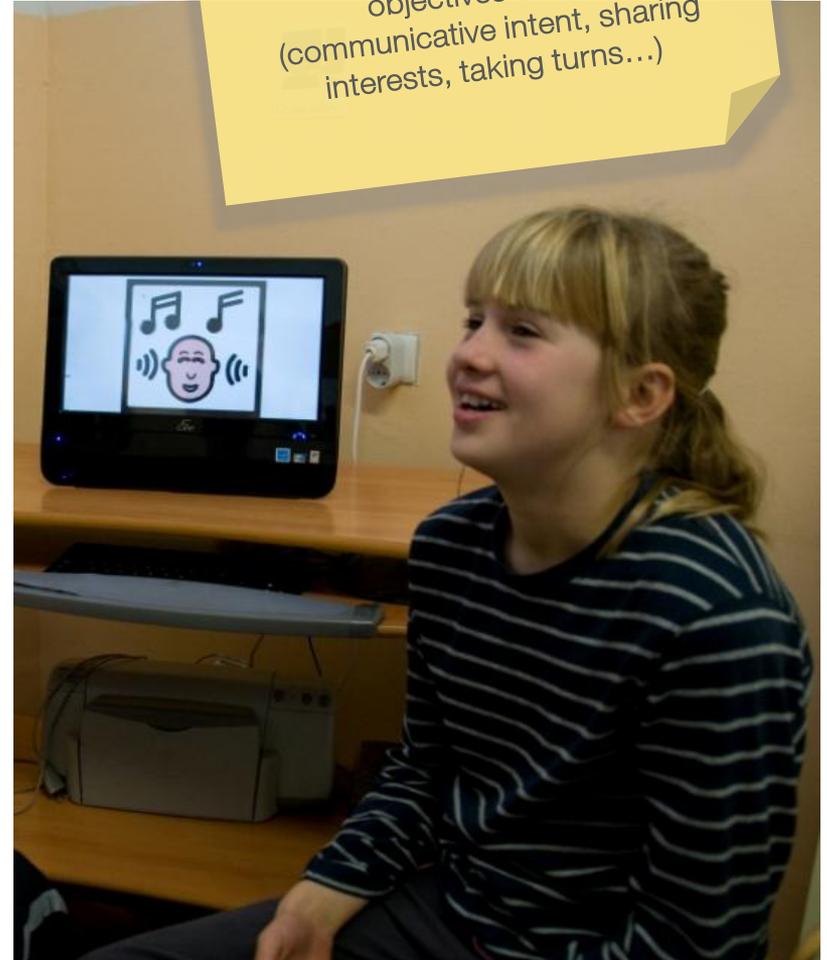


AZAHAR

# Educational objectives



Apart from the main objectives for which they were designed, these applications could be used to make the job of other educational objectives easier.  
(communicative intent, sharing interests, taking turns...)



# Azahar customization

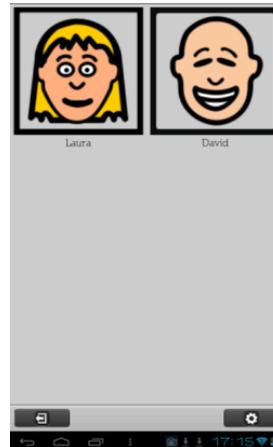


So far, we've seen what Azahar is and how it can be used.

Now, let's get into its customization.

The same device can be used by several people at the same time, allowing each user to have their own applications and their specific way of interacting with them.

Azhar comes with two demo users to explore the possibilities of the app easily. These Demo Users (David and Laura) can be deleted or hidden.

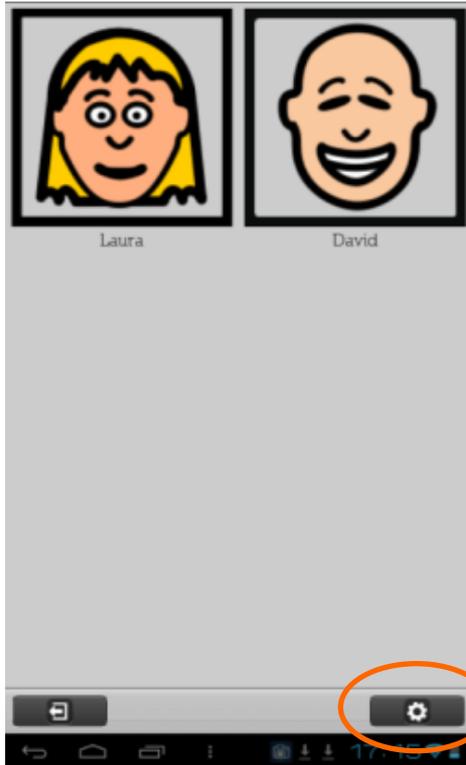


Demo users  
(Can be deleted/hidden)

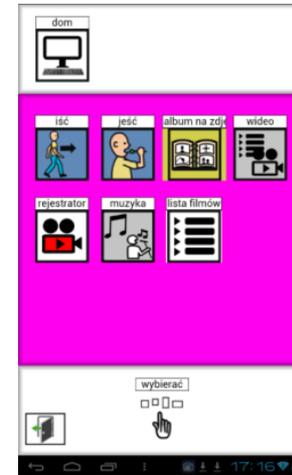
Main Screen

# Running azahar : Working Scheme

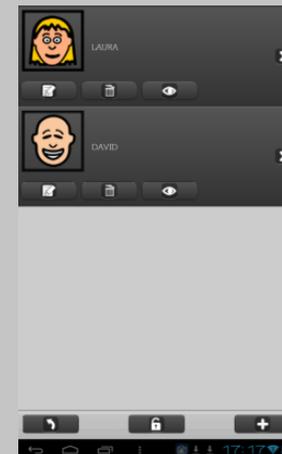
Main Screen



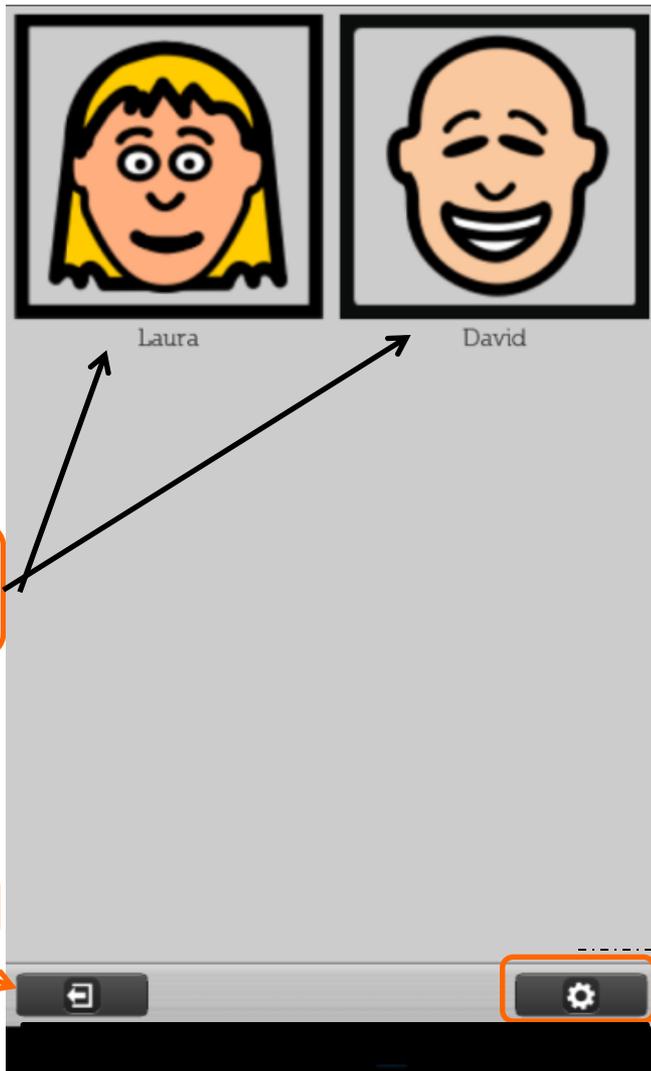
USER Section



TUTOR Section



# START section (main screen)



Demo users  
(can be deleted/  
hidden)

**Users zone.** All visible users of the system are displayed

User can enter by clicking on their picture

Tutor options:

- Add a new user
- Change user data
- Hide the user
- Delete the user
- Create new content

Access to the USERS Section

EXIT

Access to the TUTOR Section

# TUTOR Section (Tutor main screen)



Change user data (name, image)

Manage user content

Show/hide user

Delete user

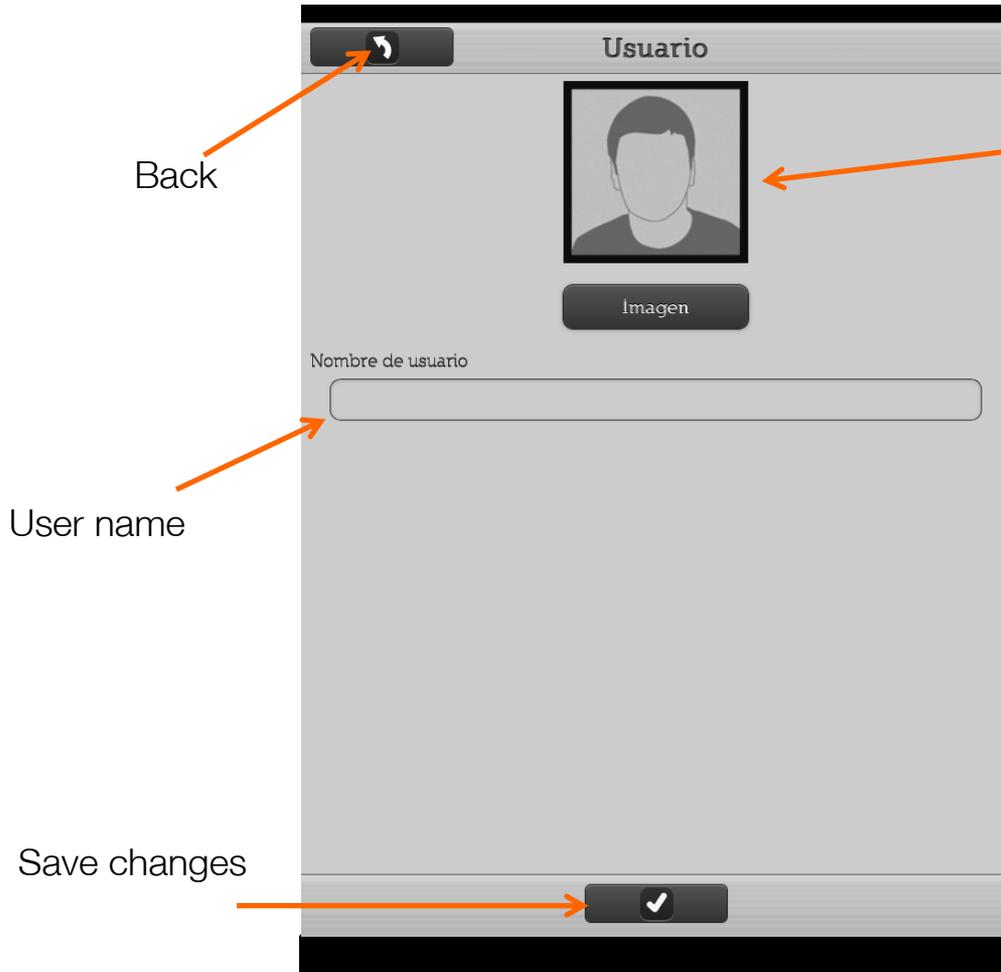
Create a password to get in

Add new user

Back

The screenshot shows a list of users. The first user is LAURA, with a yellow-haired avatar. Below her name are three icons: a document, a trash can, and an eye. The second user is DAVID, with a balding smiling avatar. Below his name are the same three icons. At the bottom of the screen is a navigation bar with three buttons: a back arrow, a lock icon, and a plus sign. A hand icon is pointing to the plus sign button.

# Create a new user



User image. You can take a picture with the camera of the device or use one from the gallery.



Open camera app

Open gallery

# Create a new user

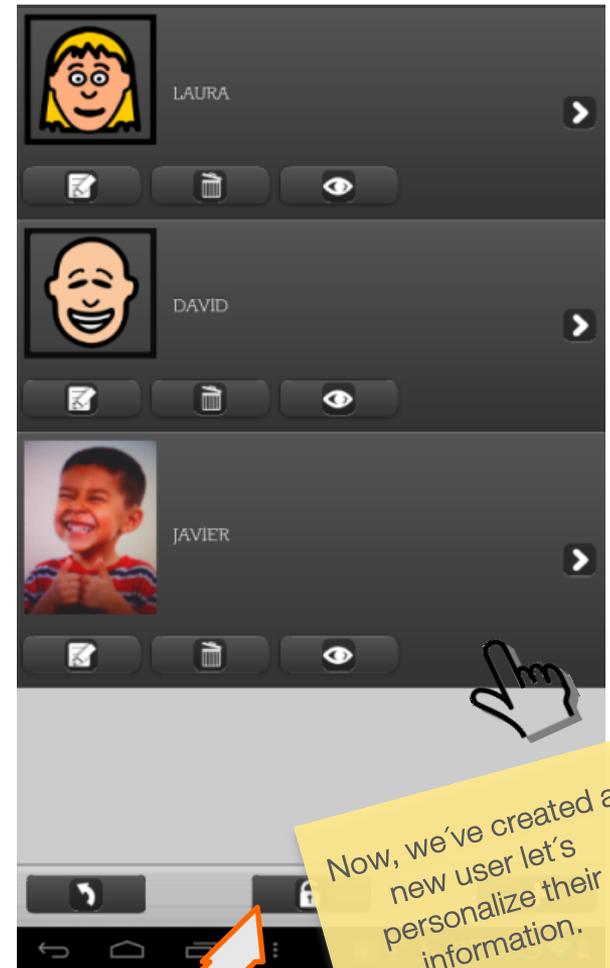
## Step by Step



1º: Insert a photo

2º: Write name by clicking in the box

3º: Click here to save your data and automatically return to the "Tutor Main Screen"



Now, we've created a new user let's personalize their information.

# User configuration screen.

## Add content (1/6)



Here, as a tutor, we see "Javier's desktop" as he will see it.

### Step Guide

Activate or deactivate clicking "user settings"



### Content

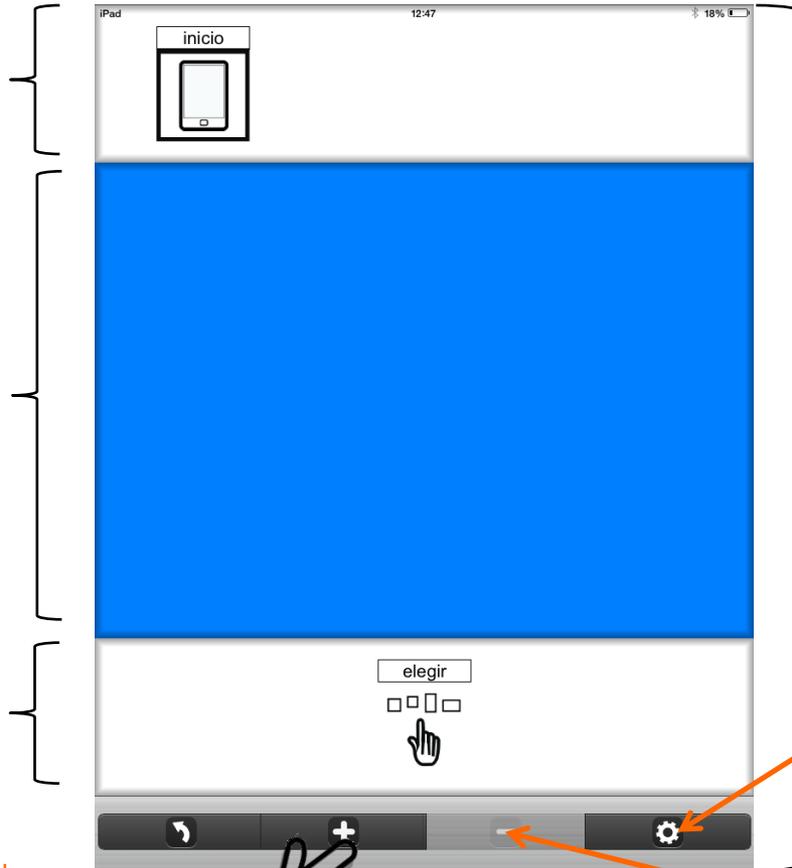
This is where we insert Javier's information

### Choose

Visual aid showing the user that they can choose

### Add content

Click here to open the User's new content screen to add communication, leisure and planning tools



"Javier's Desktop" is empty because we haven't yet personalized it

### User Settings

In order to change the configuration

### Delete content

First select the content and then press delete

# User configuration screen.

## Add content (2/6)



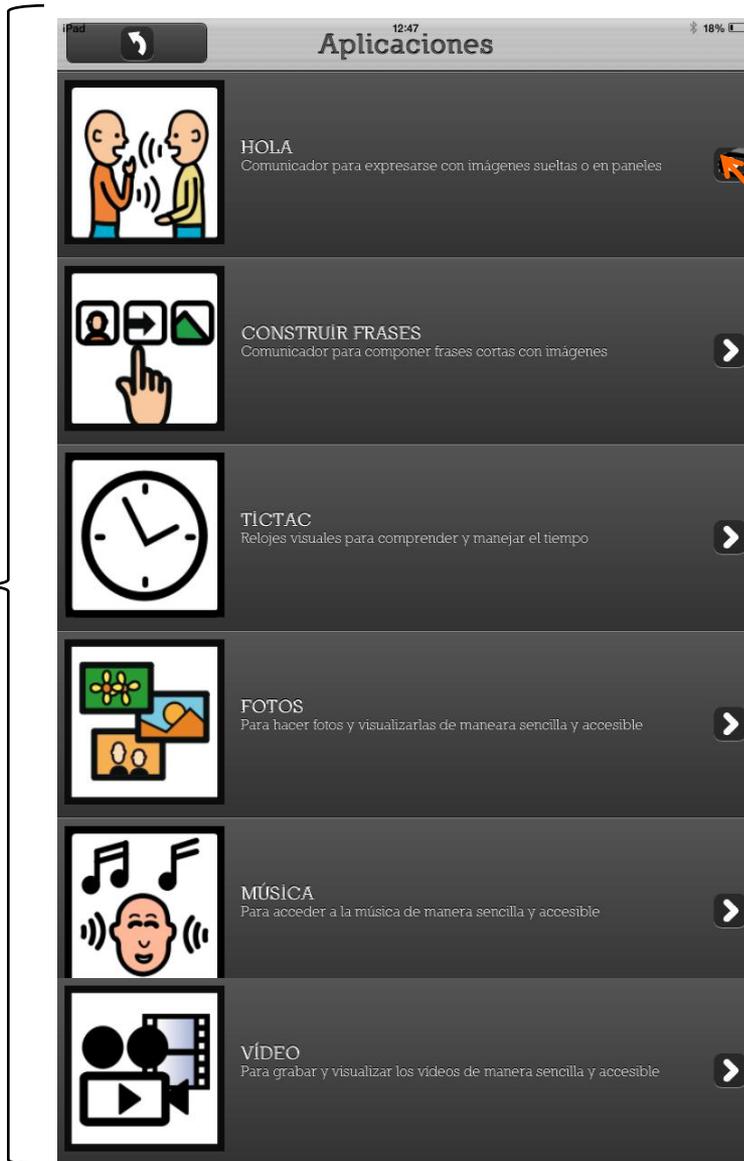
Let's activate one simple message creating a stand-alone button with the application HELLO

Communication with pictograms:

Click here:

- We can add a single button (simple message)
- Add categories with several pictos
- Add a combination of story boards with several categories

Let's get into "HELLO"



### Content to add

#### Communication

- HELLO (buttons or story boards)
- MAKING PHRASES

#### Supporting tools:

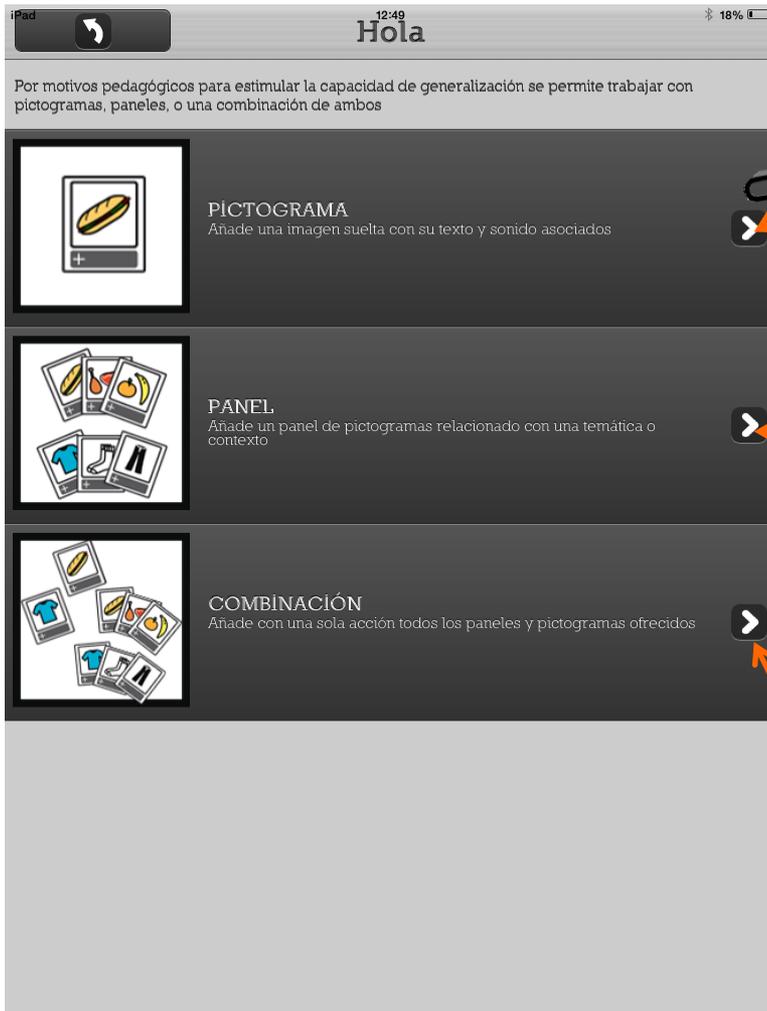
- TIC-TAC (timer)

#### Leisure:

- PHOTOS
- MUSIC
- VIDEOS

# User configuration screen.

## Add content (3/6)



### Create a new comm. button

Add a single image with its associated text and sound

### Create a new comm. story board

A story board is like a single category relating to a theme or context.

It has a picto that represents the board and inside all pictos needed. For example:

Story board: Kitchen

Inside: knife, spoon, table, oven...

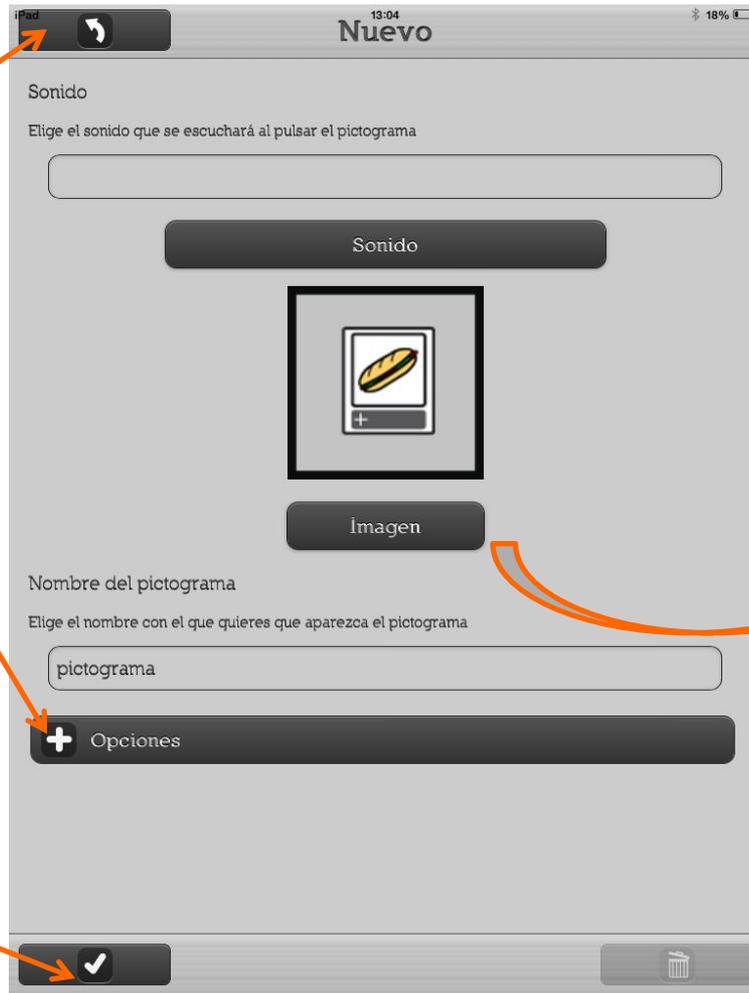
### Create a combination

To add all storyboards and pictograms offered in one step

For pedagogical reasons in order to stimulate the ability to make generalized pictograms, story boards or a combination of both may be used. To create a communication system the best thing is to start gradually.

# User configuration screen.

## Add content (4/6)



Back

Be aware of clicking it without saving the data

More options:

Choose background color, select category...

Save changes

1.- Click the **Sound** button to record your voice or link an mp3 file from Gallery

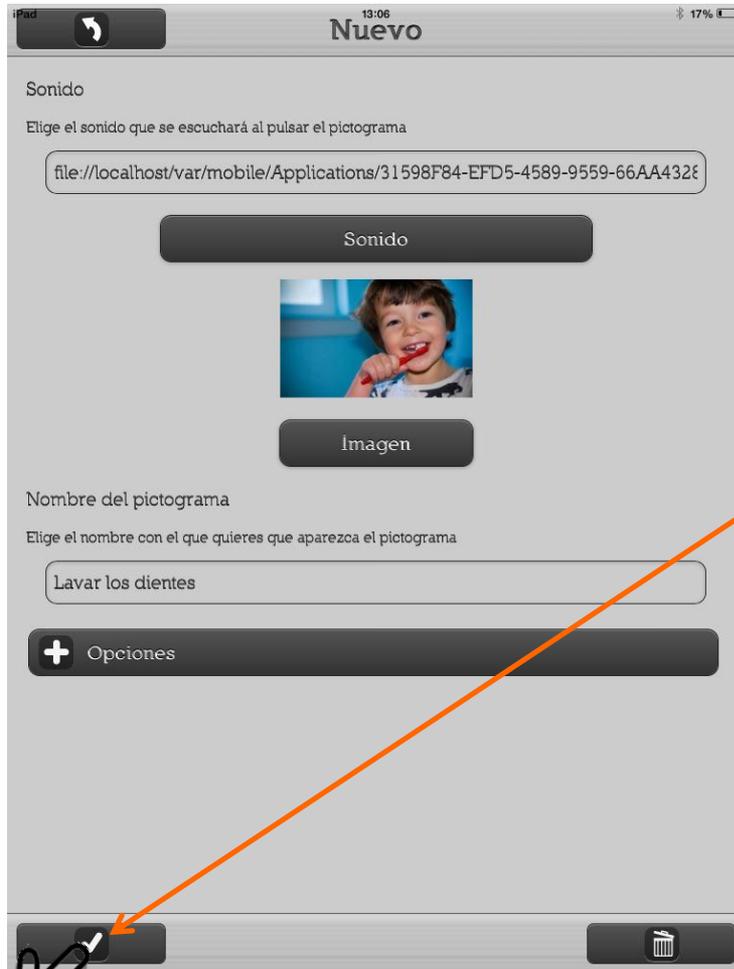
2.- Click the **Image** button to link an image from gallery or take a photo with the camera



3.- Insert the **name of the pictogram** that will be shown on top of or under the image

# User configuration screen.

## Add content (5/6)



13:06  
Nuevo 17%

Sonido  
Elige el sonido que se escuchará al pulsar el pictograma

file:///localhost/var/mobile/Applications/31598F84-EFD5-4589-9559-66AA4328

Sonido



Imagen

Nombre del pictograma  
Elige el nombre con el que quieres que aparezca el pictograma

Lavar los dientes

+ Opciones

Let's see an example:

- Record the message "Brushing teeth"
- Insert a representative image
- Text: "Brushing teeth"

Once done.....

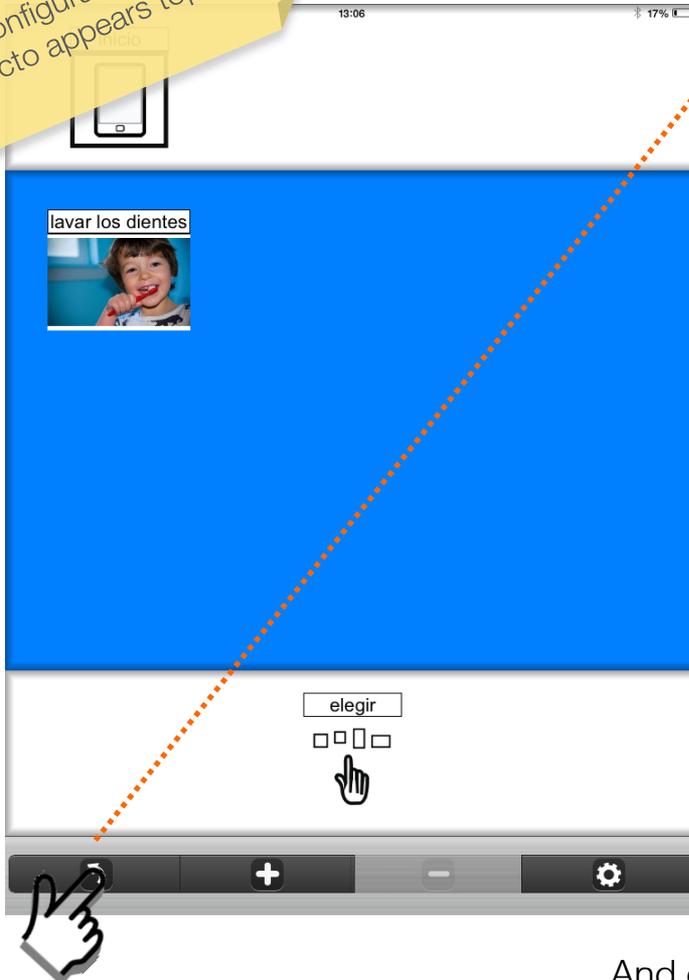
We save the data and return to  
"User configuration screen"

# User configuration screen.

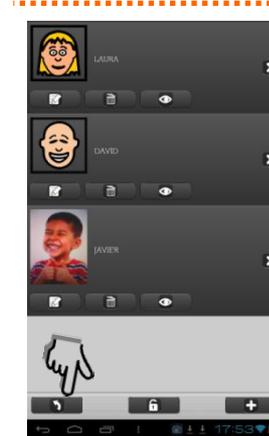
## Add content (6/6)



When coming back to the user configuration screen the picto appears top left



Let's see how the user sees their desktop  
Press BACK



"Tutor Main Screen"



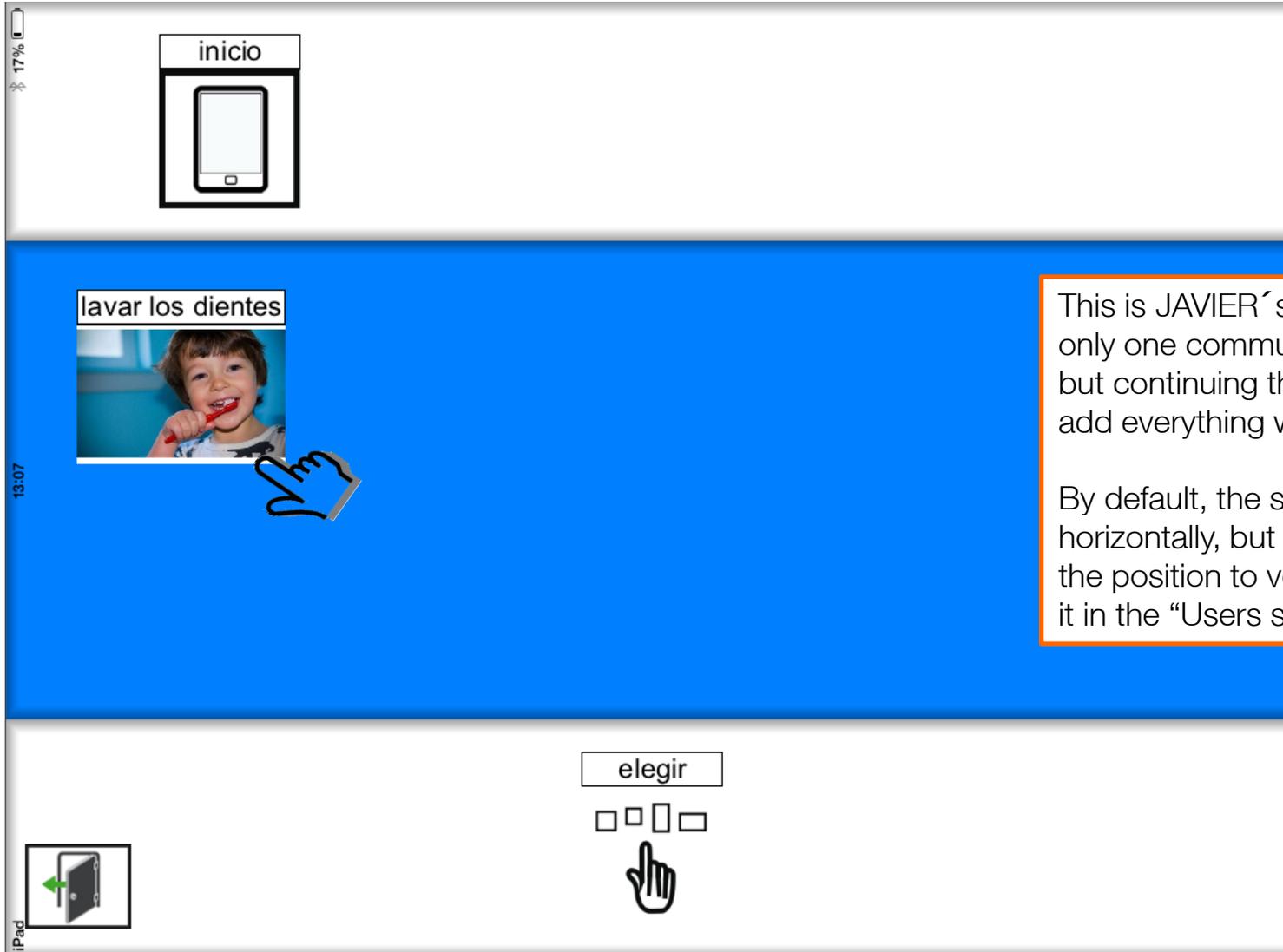
"Main Screen"

**USER Section**

And clicking in Javier's image we go to

# User section.

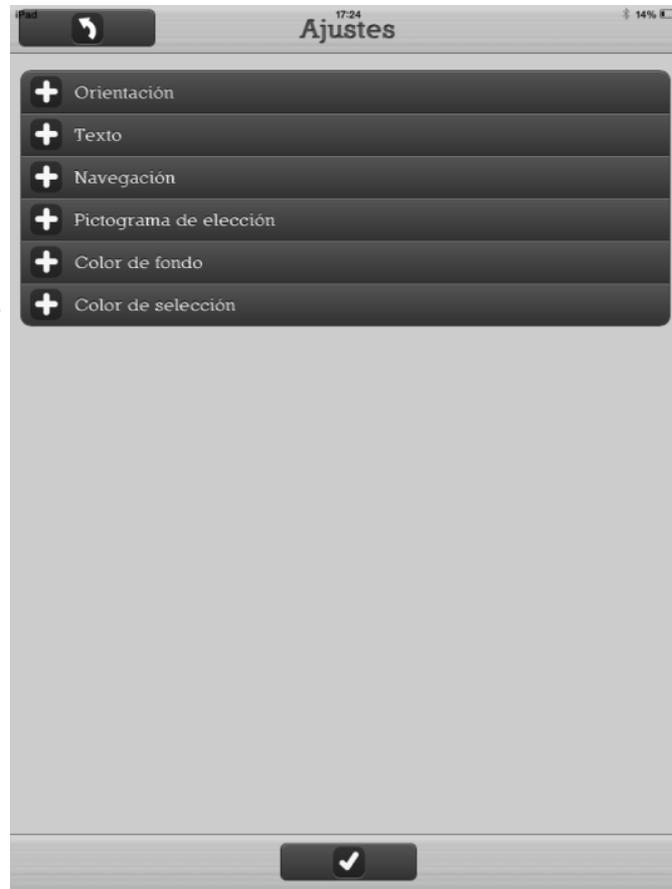
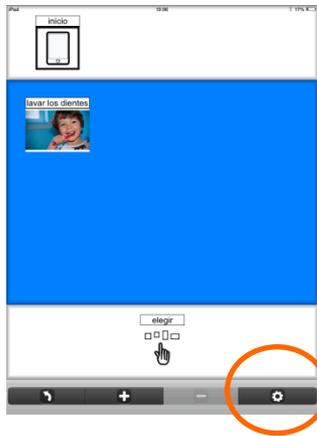
## Javier desktop



This is JAVIER´S section. He has only one communication button, but continuing the process we can add everything we want.

By default, the screen is shown horizontally, but you can change the position to vertical by specifying it in the “Users settings screen”.

# User Settings screen.



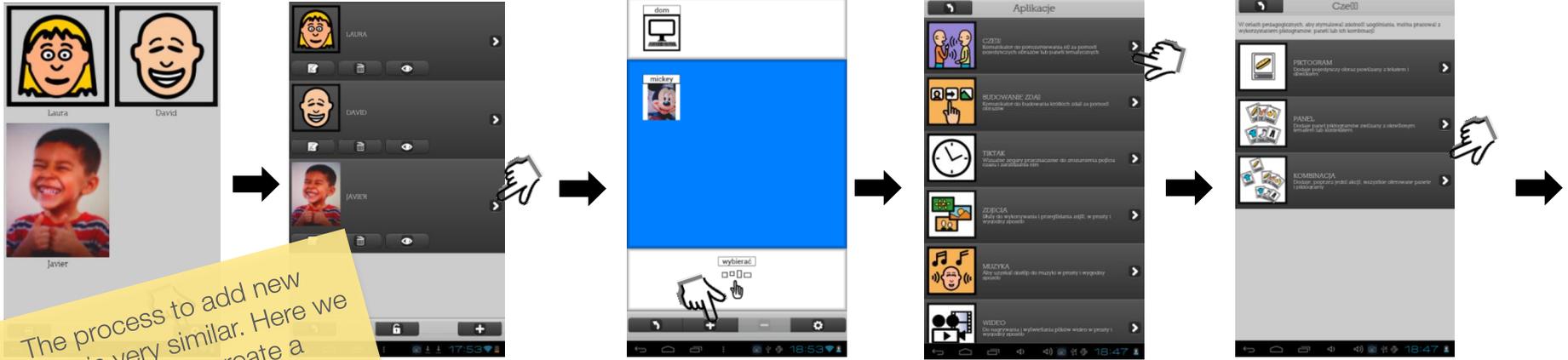
We can personalize several things for each user in the user settings screen:

- **Orientation**: Vertical or horizontal
- **Text**: Show text, position, format
- **Navigation**: Different formats



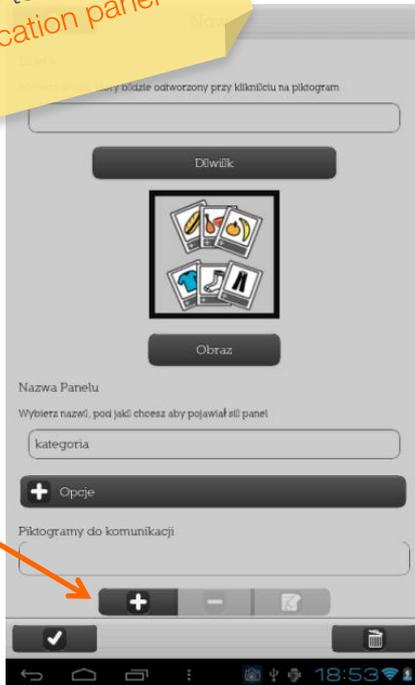
- **Selection pictogram**: enable or not
- **Background color**: to choose the color of the desktop
- **Selection color**: to choose the color to illuminate the buttons

# other examples – communication panel



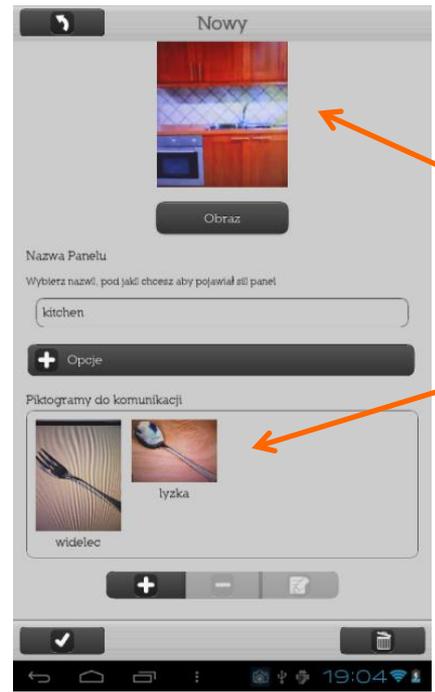
The process to add new content is very similar. Here we show how to create a communication panel

Insert pictograms once created or create a new one clicking +



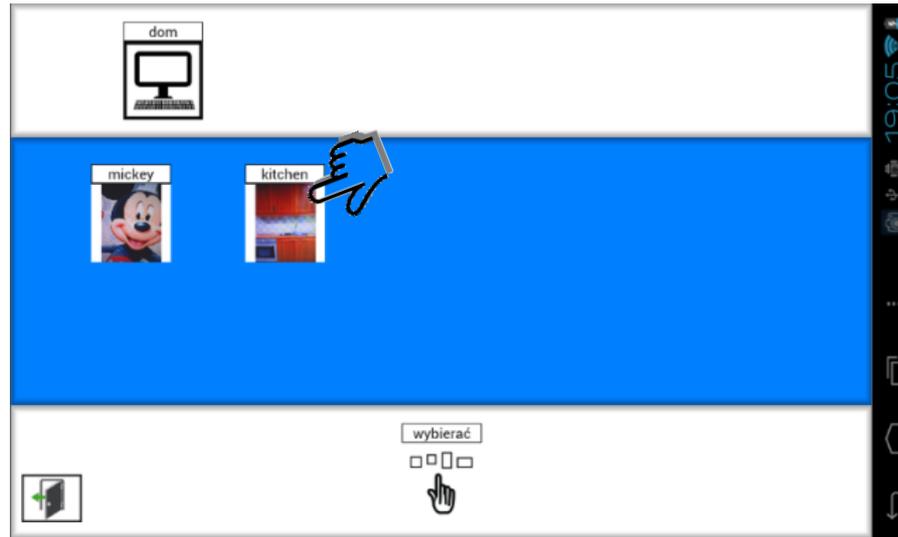
Options offered by the pictogram panel (sound/image/text)

Pictogram panel (add/delete/edit)

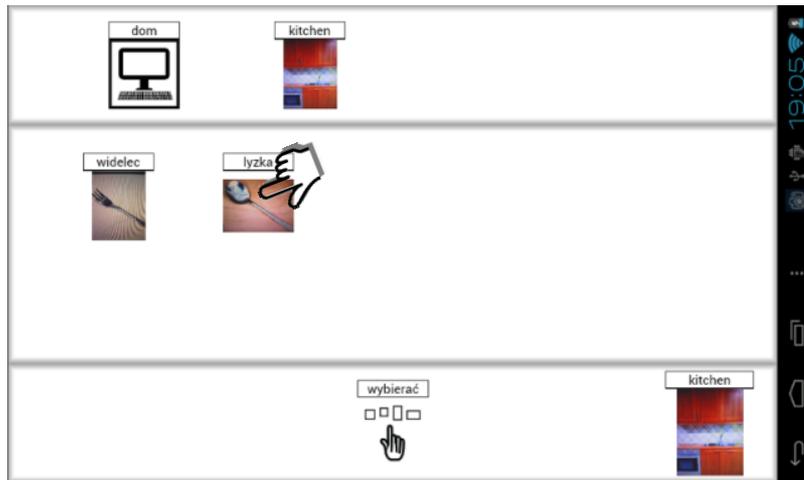


Create the category kitchen with two pictograms: Spoon and Fork

# other examples – communication panel



This is what Javier will now see on his desktop



Three steps



# other examples - TIMER



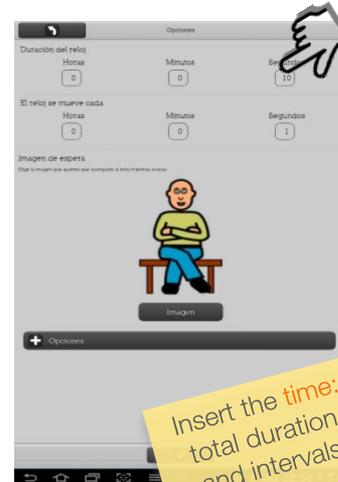
Select TIC-TAC



Start by creating a single TIMER



Choose the design: bars, egg timer, clock



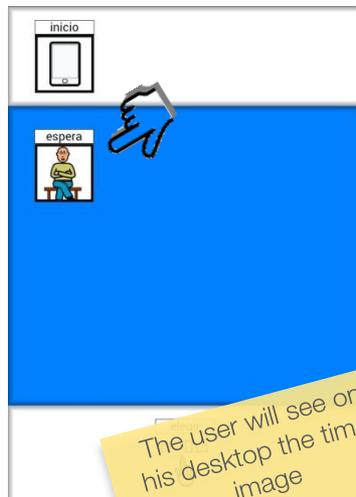
Insert the time: total duration and intervals



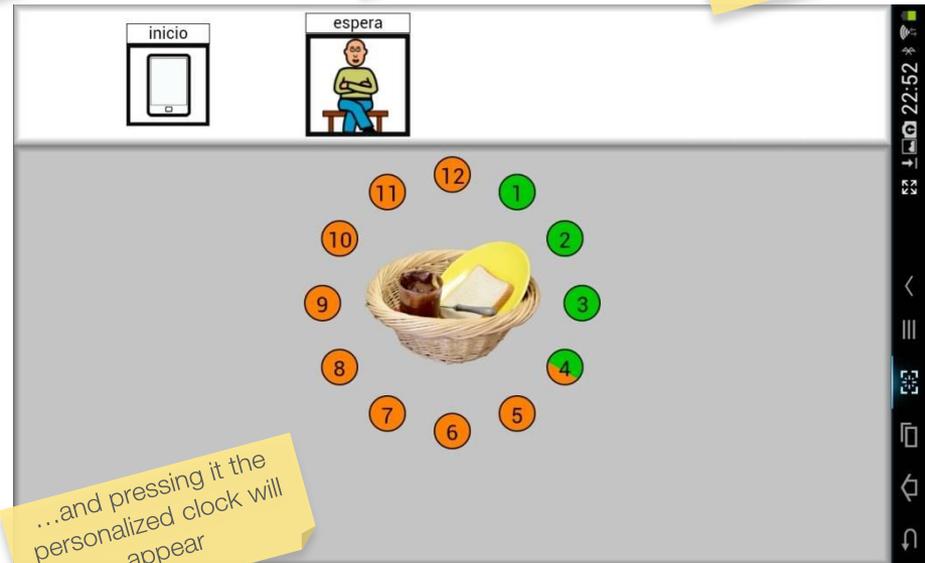
Add a representative image



There are more options to personalize (color, música...)



The user will see on his desktop the timer image



...and pressing it the personalized clock will appear

now it's your  
turn, go ahead  
and get  
started 😊



[www.proyectoazahar.org](http://www.proyectoazahar.org)