

IntelliGaze

ICC

Integrated Communication & Control

User Manual

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ICC Overview

IntelliGaze integrated communication and control module ('ICC') provides efficient access to a number of useful functions. All inputs, including editing functions have been optimized for gaze interaction.

The functions are organized in 'Apps', which can be designed and managed using the integrated App Manager. Apps can be started from the Launcher, which also serves as a home-page for navigation in ICC.

Users should feel encouraged to adapt ICC to their personal requirements. Nevertheless ICC comes with a number of preinstalled apps:

- Swift Talker - an easy to use and extend collection of categorized, messages.
- Web Browser - use either numbered links or a zoom-click to browse the web. Websites can be managed in bookmarks or shared via social media apps.
- Fully button-accessible apps for Facebook, Gmail, Twitter and WhatsApp. (Check recent releases for updates).
- and several more...

The social media apps use frequently changing web-interfaces, therefore a cloud update has been integrated which allows the transparent maintenance of the provided functionality.

Those Cloud  Apps use content, hosted by alea technologies to interact with the web services.*

Cloud apps are exclusively provided by alea technologies, but can be duplicated and modified.

Standard Apps can provide environmental control, speech generation, keyboard shortcuts, web browsing and many more things.

The speech generating functions can be bi-lingual, where content can be stored in two quickly switchable languages.

All apps can be imported or exported to/from a single file. Sharing and re-use is supported, as no credentials are stored in those files.

[No personal data is being uploaded, solely interaction functions are kept up to date, when 3rd party changes occur.]*

ICC Demo-Videos on Youtube



<http://tiny.cc/vv23tz>

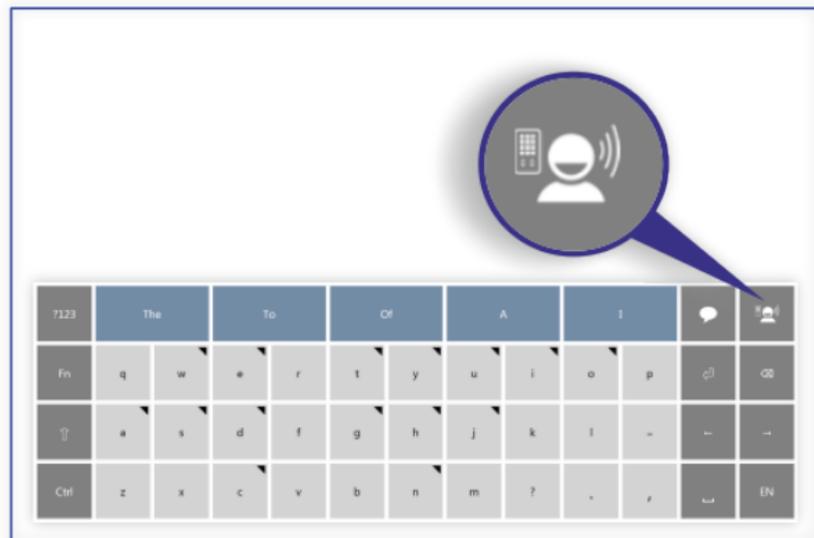
Latest ICC-Apps



<http://apps.intelligaze.com>

Run ICC

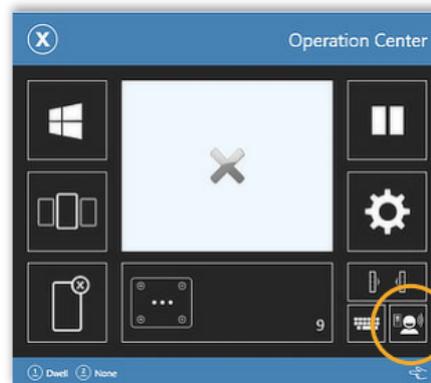
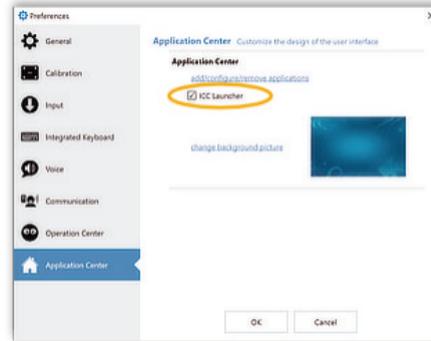
ICC can easily be launched from IntelliGaze integrated on-screen keyboard.



Additionally a link to ICC can be included in the IntelliGaze Application Center.

Ctrl-F11 [Preferences] → Application Center

For setup and configuration, there is also an option to launch ICC from the Operation Center using touch input.



ICC - Launcher

The Launcher serves as a home page for all installed apps.

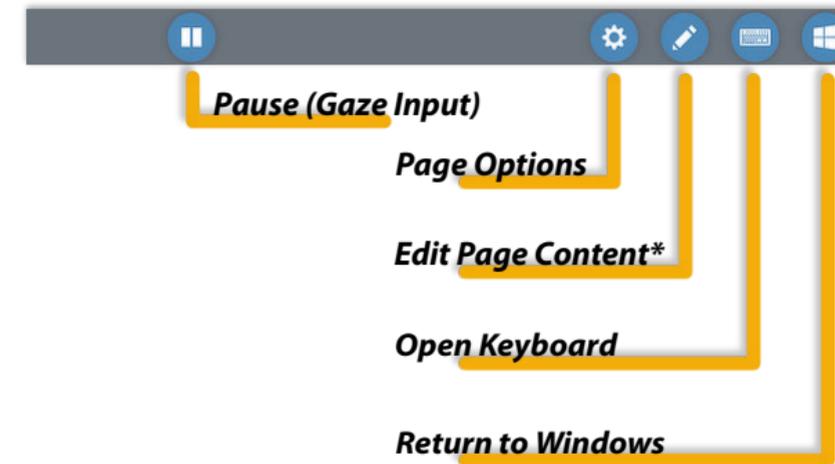
The appearance can be configured and apps can be added and removed by the user.



If there are more than 12 apps installed, scrolling will be enabled.

The Launcher is always easily accessible from every running app.

Like most ICC pages, the launcher provides a toolbar at the bottom. The available functions can vary, depending on settings and context.



[* Gaze editing can be disabled.]

Launcher - Editing

The Launcher can be switched to edit mode easily by pressing the edit button in the bottom bar*.



All editing functions are fully gaze enabled, allowing also the user to configure ICC individually.



Launcher and (page-) content editing requires the selection of an element (free space or button), followed by the choice of operation to apply. Several functions, i.e. moving a cell, benefit from optional direct touch or mouse input.



Follow Link

App Manager

Create, Rename, Import, etc. apps.

Launcher Properties

Add App

Resize App

Move App

Delete App

Edit - Mode

Gaze <> Touch/Mouse Editing

The editing process has been optimized for the chosen input modality. Therefore the layout of the menu bar varies slightly, whether the edit mode has been initiated by mouse/touch or gaze input.

For orientation the actual edit mode can be distinguished by the icon on the right hand corner.

Touch/ Mouse Mode



Gaze-Mode





Launcher - Adding an App

1. Select an empty cell.
2. Click to open the list of available apps.
- 3.a Select the app that should be added to the Launcher.
- 3.b **Import** an app from a file, i.e. exported or downloaded.
- 3.c Create a **New** app from scratch.
(please refer to **App Manager** documentation)

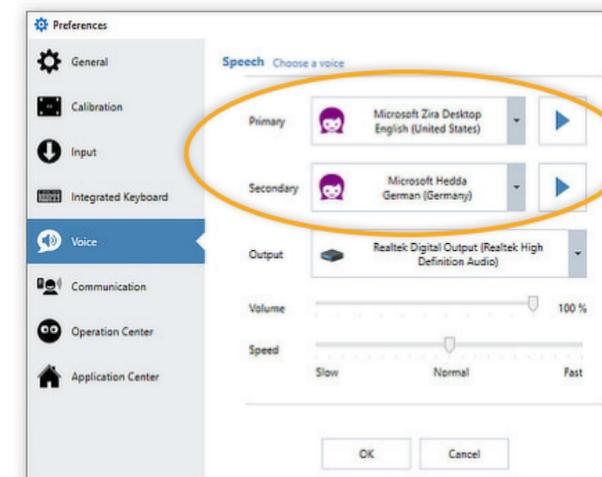
For for options to manage apps, please refer to the Editing section → App Manager.

ICC - Bi-Lingual Option

ICC can store all messages in two different languages.

Typical use case includes care-takers or family members with different language competencies.

The feature will only be noticeably, when two voices ('languages') have been configured in IntelliGaze - Preferences:



EN_english [Yes] → 'Yes'
 Zira (EN voice)

DE_utsch [Yes] → 'Ja'
 Hedda (DE voice)

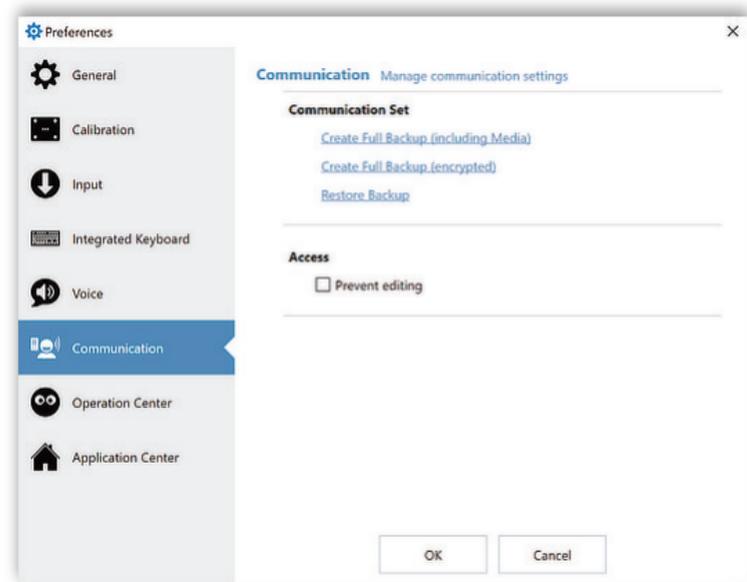
While the example shows the Swift Talker app, the bilingual feature is available for all text-2-speech functions.

If the secondary language is chosen without present text, the primary text will be used - causing a language mismatch.

Backup & Restore

IntelliGaze provides several options to backup and restore the complete ICC content.

The functions are accessible from the IntelliGaze-Preferences page (Ctrl-F11) → Communication Tab



Backup with media

Saves all apps (layout, content) into a single file.

Full Backup

Saves all apps (layout, content AND user credentials) into a single encrypted file with password protection.

Restore Backup

Overwrites all ICC content with the backup,



Manufacturers default can be restored by loading the backup
c:\Program Files (x86)\alea technologies\
IntelliGaze\bin\apps_master.pak
Alternatively the tool Reset IntelliGaze.exe can be used to restore
manufacturer state.

Prevent Gaze-Editing

No changes can be made to the layout or content of ICC, using gaze input.

List cells can still be filled with personal content.

Reset an App (cache)

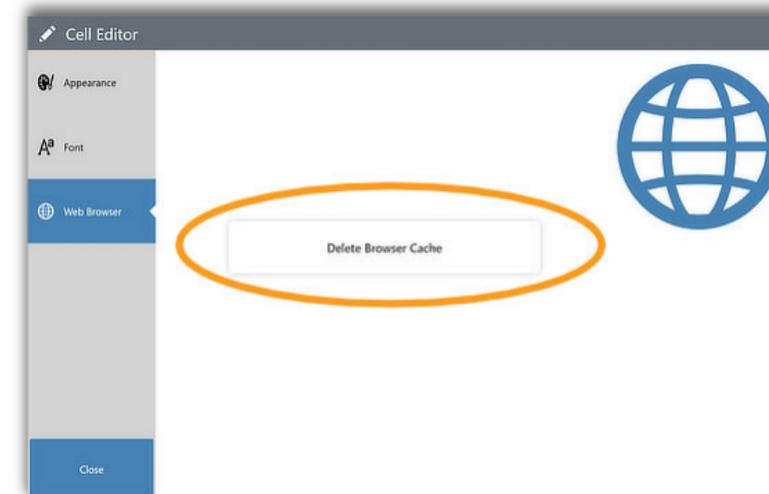
Sometimes it can be useful to reset the browser cache of a web-based app.

This will delete all temporarily stored data, incl. login data, in the particular app.

1. Open the app.
2. Switch to [Edit Mode] .
3. Select the browser content cell.
4. Switch to [Cell Editor] Item Properties open.
5. Choose 'Web Browser' tab
Press 'Delete Browser Cache' button
6. Close the Cell Editor window.
7. Close the Page Editor.



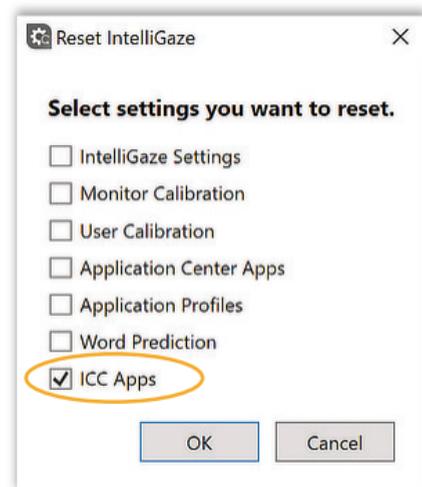
Apps requiring credentials will ask you to provide login data again.



Reset ICC

ICC can be reset to the delivery configuration, erasing all customized content, incl. the EC configuration.

In case of doubt, generating a backup of the current ICC content is highly recommended, before reset.



 The reset program is intentionally not linked to the Start Menu, but only available directly from the installation directory:
`c:\Program Files (x86)\alea technologies\IntelliGaze\tools\ResetIntelliGaze.exe`

Using Apps

ICC comes with a number of predefined apps:

- Swift Talker - Quickly use categorized messages.
- Web Browser - Browse the web.
- GMail  - Send and receive emails via Google's web-interface.
- Facebook  - Navigate your personal Facebook page.
- Whatsapp  - Send and receive Whatsapp messages.
- Twitter  - Tweet and navigate your Twitter page.
- Youtube  - Navigate and watch Youtube's video collection.
- Feedback - share your user experience with us.
- Eye Gaze - simple interface to status and calibration.
- Environmental Control (sample only , needs customization to local setup)

Apps typically group functions that serve a specific task, i.e. generate speech, control external devices or navigate the web.

Cloud  Apps are different, as they serve a special purpose by providing a more accessible interface to particular web-services. Most functions of cloud apps have been custom developed and can be upgraded without the users intervention through alea technologies cloud service. Multiple cloud apps can provide similar services, i.e. by providing a complete or simpler, enlarged interface.

 If you would like to see a particular web-service in a future cloud app, please feel most welcome to share your ideas through the provided Feedback app.

ICC Demo-Videos on Youtube



<http://tiny.cc/vv23tz>



Swift Talker

Swift Talker provides quick access to pre-defined messages in several categories.

The list of messages can easily be customized.

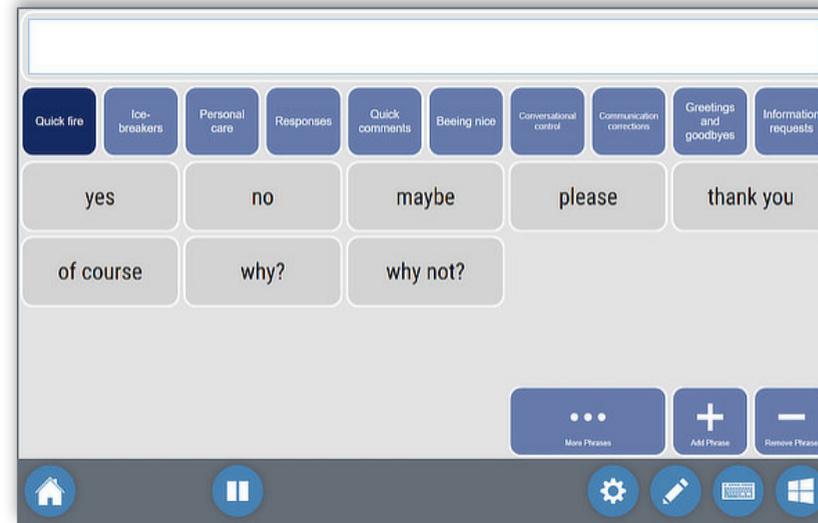
Optionally the list can provide messages in two easily switchable languages.

Setup - Server

- None -

Setup - App

- Select voice(s) in IntelliGaze-Preferences



Swift Talker - Editing

Adding a message

Example: add 'Great' to Quick Fire category.

1. Navigate to the desired category page, 'Quick Fire'.
2. Type the text into the text-field at the top: **"Great"**
3. Press [+] and select a field, empty or used (following messages will be shifted).
4. Done.

Deleting a message

1. Select [-].
2. Select the field that you would like to delete.
3. Done.



Messages can not be reordered or otherwise re-arranged.

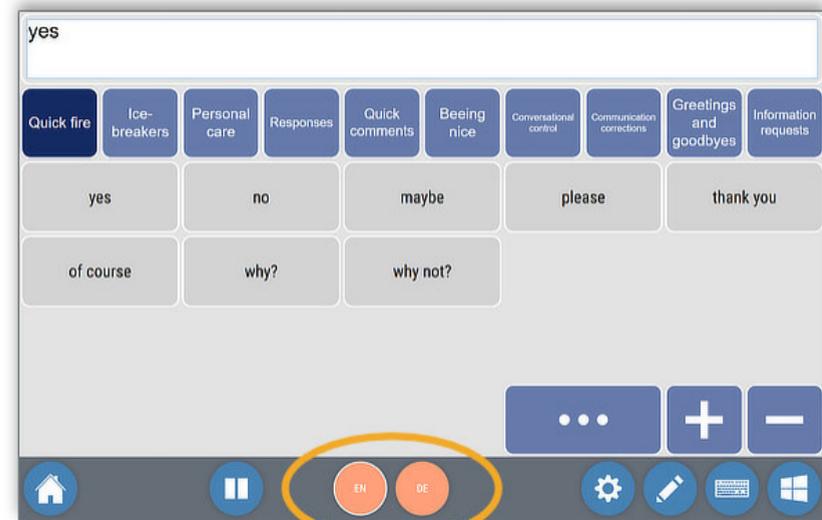


Once a category fills the whole page, more pages can be used by pressing [...].

Swift Talker - Bi-Lingual

If two voices of different language have been configured, Swift Talker will provide language switches in the bottom menu bar.

When the secondary output language is selected, the display will not change, but the spoken texts will use the alternatively stored texts and the 2nd voice.



EN_english
[Yes] → 'Yes'
Yes
Zira
(EN voice)

DE_utsch
[Ja] → 'Ja'
Ja
Hedda
(DE voice)

 If the secondary language is chosen without present text, the primary text will be used - causing a language mismatch.

Editing bi-lingual content in Swift-Talker follows the simple process displayed above, with the slight restriction that 2nd language messages cannot be deleted as long as a 1st language message is present in a field.

FAQ - Swift Talker	
Question	Answer



Web Browser

The Browser app allows an easy, gaze-controlled access to the world-wide-web by using a simple button interface.

Available functions include:

- Navigate by entering Link-Ids or using Zoom-Click alternatively
- Store and use an unlimited number of bookmarks
- Download content.
- Easily share content with other apps.

Prerequisites

- None -

Setup - Server

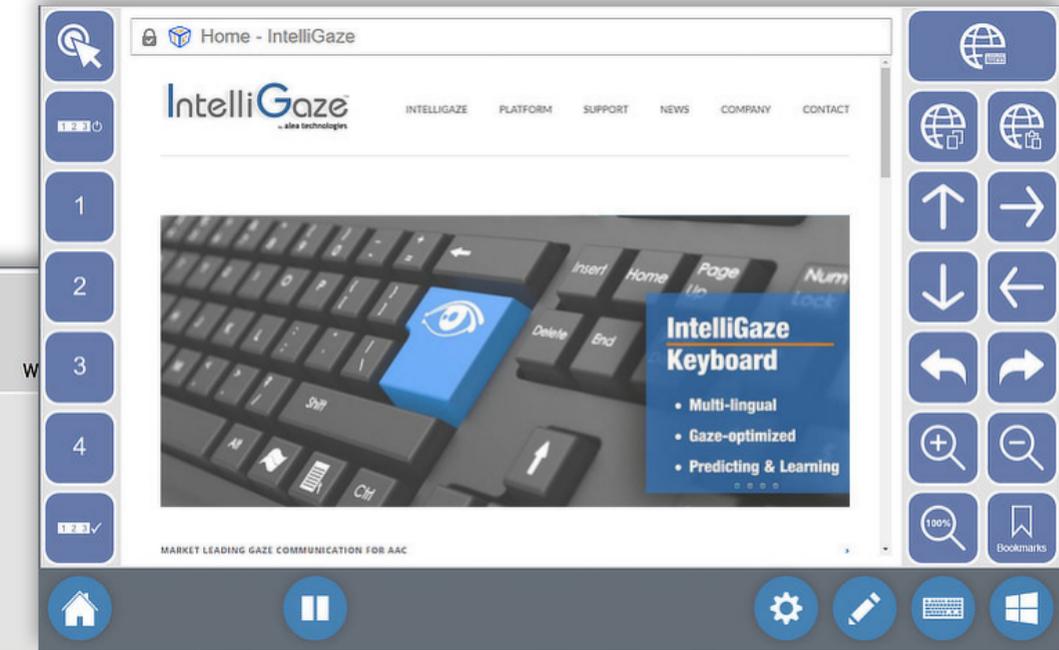
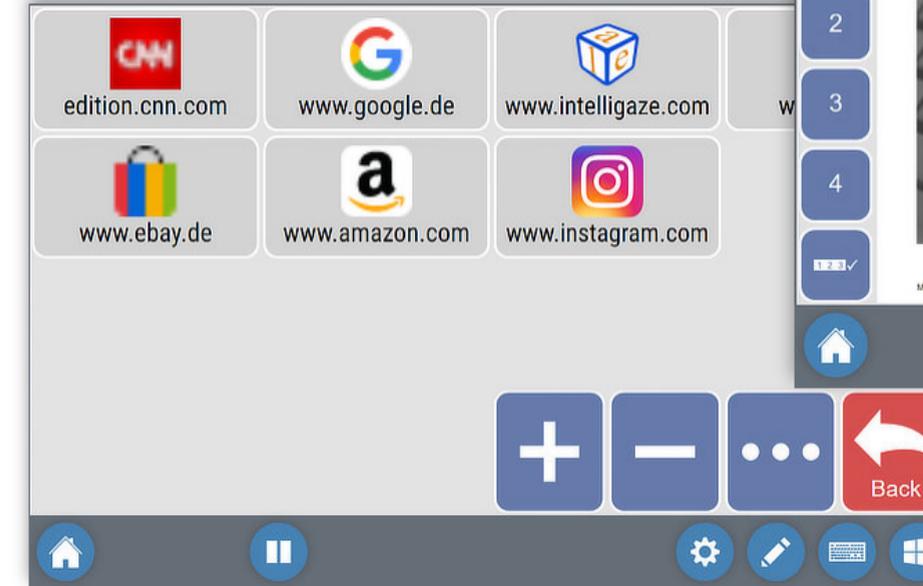
- None -

Setup - App

- None -

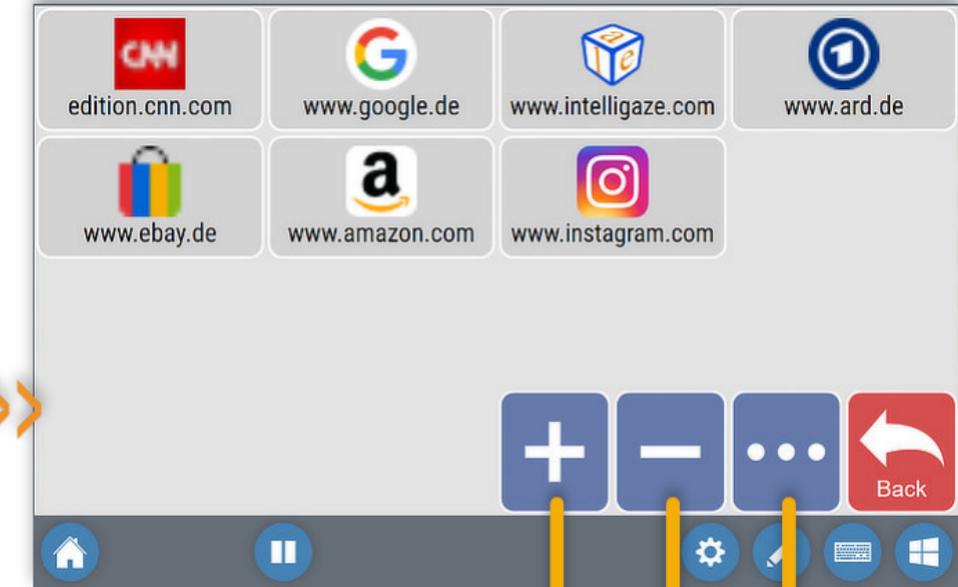
 All login data and other cookies will be stored until the browser cache is deleted.

Web Browser - Bookmarks



Web Browser - Main

Browser - Main			
	Use Zoom-Click. Dwell on zooming target.	Enter Web-Address [URL]	
	Link-Highlighting Toggle display of link IDs.	Copy URL	
1	Link-Digit	Scroll - Up	
2	Link-Digit	Scroll - Down	
3	Link-Digit	Navigate Back Opens previous page.	
4	Link-Digit	Zoom-In	
	Confirm Link Number Follows selected link.	Zoom 100% (reset zoom)	
		Paste URL	
		Scroll - Right	
		Scroll - Left	
		Navigate Forward Opens next page (after back).	
		Zoom-Out	
		Manage Bookmarks add, select, delete, etc	



1. Open Website in Browser.
2. Open 'Bookmarks' page.
3. Select [+].
4. Pick location.

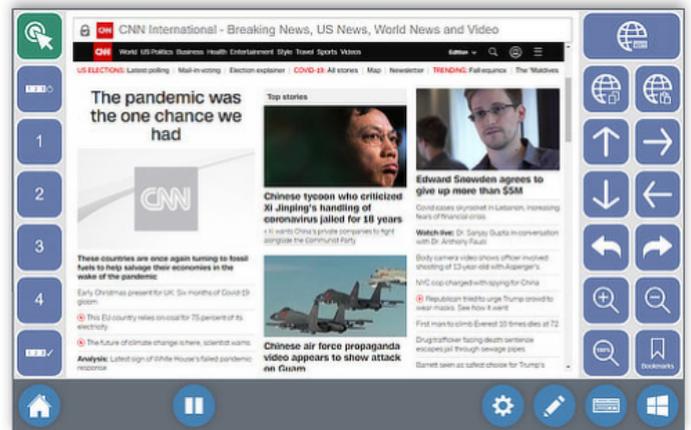
Add Bookmark

Delete Bookmark

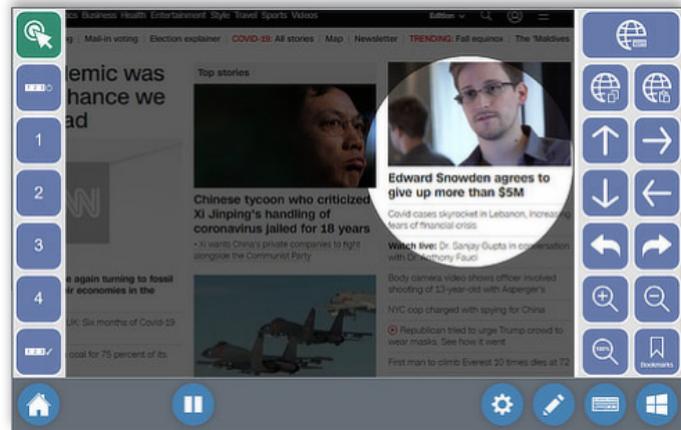
More Bookmarks

Selection Methods

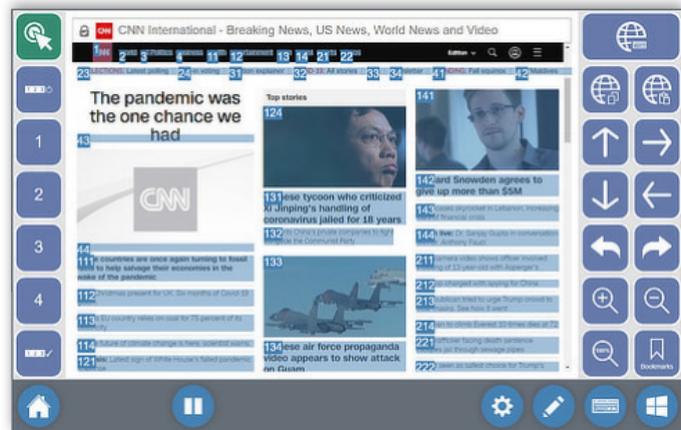
Zoom-Click



Link-Highlight



Dwell on Target



Enter:
1-4-2 + [Example]

FAQ - Browser	
Question	Answer
How can I save a bookmark?	Select the 'Bookmark' function and add [+] the current website to the list. [Details in sketch above]
How can I download a file?	When a download link is selected, the related file will be automatically saved to the 'Download' folder.
How can I share a link with another app, i.e. WhatsApp?	Any URL can easily be copied with the provided function. 
How can I open another browser tab?	The browser app only supports one tab at the moment.



Gmail

The Gmail app facilitates the access to google's email web-interface.

Available functions include:

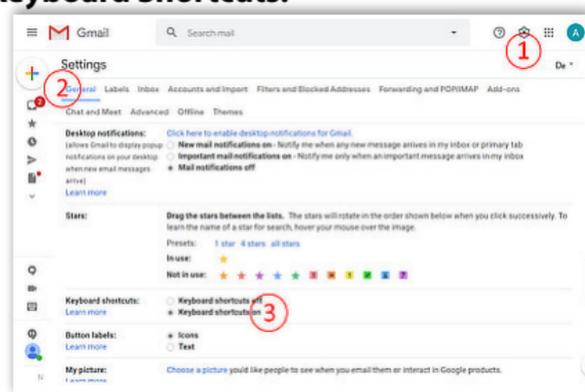
- Compose, reply to and forward emails.
- Manage folders.
- Receive and send attachments.

Prerequisites

- Gmail account and access to gmail web-interface.
- Connected Smartphone to perform 2-factor authentication.

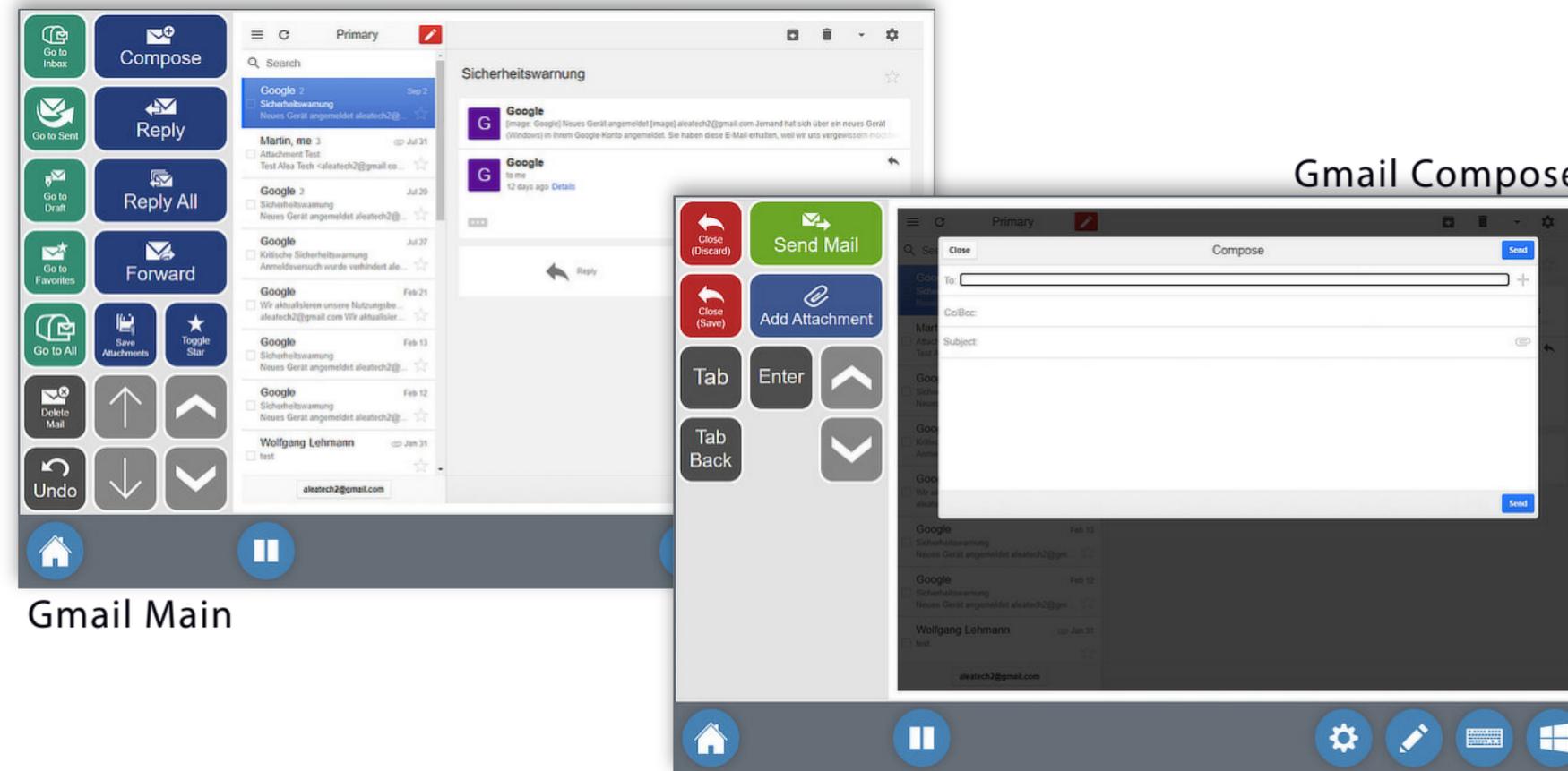
Setup - Server

1. Log into Gmail: <http://mail.google.com> using your credentials.
2. Navigate to **Settings**:  , **General**-Tab.
3. Enable **Keyboard Shortcuts**.



Setup - App

On the first start-up, the app will ask for your credentials. Depending on the configuration, it may also request a 2-factor authentication, typically via your smartphone. The login data will be saved until you actively reset the browser cache.



Gmail Main

Gmail Compose

Gmail - Main

	Inbox Opens Inbox.	Compose Opens new, empty email.	
	Sent Opens sent-email folder.	Reply Reply to sender of selected email.	
	Drafts Opens email drafts folder.	Reply All Reply to all recipients of selected email.	
	Favorites Opens favorites folder.	Forward Forwards selected email.	
	Go to All	Save Attachments Saves to 'Download' folder.	 
	Delete Email Deletes selected email.	List - Scroll Up Scroll up email list.	 
	Undo Undo last action	List - Scroll Down Scroll down email list.	 

Gmail - Compose email

	Close - Discard Close and loose edits.	Send email	
	Close - Save Close and Save edits	Add attachment Select an attachment to email.	
	TAB - next jump to next element	'Enter'	 
	TAB - back jump to previous element		

Email - scroll up
Scroll up email content.

Email - scroll down
Scroll down email content.



Twitter

The Twitter app facilitates the access to Twitter's web interface.

Available functions include:

- Post tweet and thread.
- Attach image.
- Like, share, retweet.

Prerequisites

- Twitter account.
- Smartphone to perform 2-factor authentication.

Setup - Server

- None -

Setup - App

On the first start-up, the app will ask for your credentials.

Depending on the configuration, it may also request a 2-factor authentication, typically via your smartphone.

The login data will be saved until you actively reset the browser cache.



Twitter Main

Twitter Reply

Twitter - Main

 Home	Home	Compose Compose new Tweet	
 Trends	Trends	Navigate - Up	 Previous
 Notifications	Notifications	Navigate - Down	 Next
 Mentions	Mentions	Forward Forwards selected email.	 Reply
 Messages	Messages	Retweet	 
 Liked Tweets	Liked Tweets	Share	 
 Profile	Profile	Search	 Search

Toggle 'Like'	
Add bookmark	
	∅

FAQ - Twitter	
Question	Answer

Facebook



The Facebook app facilitates the access to Facebook's web interface.

Available functions include:

- Post, share
- Comment, like
- Add image to post

Prerequisites

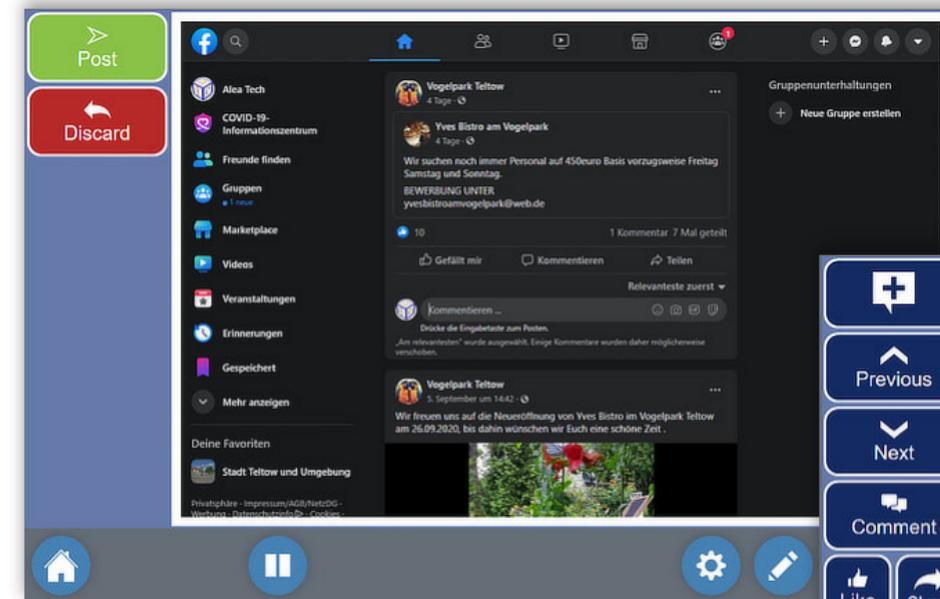
- Facebook account.
- Smartphone to perform 2-factor authentication.

Setup - Server

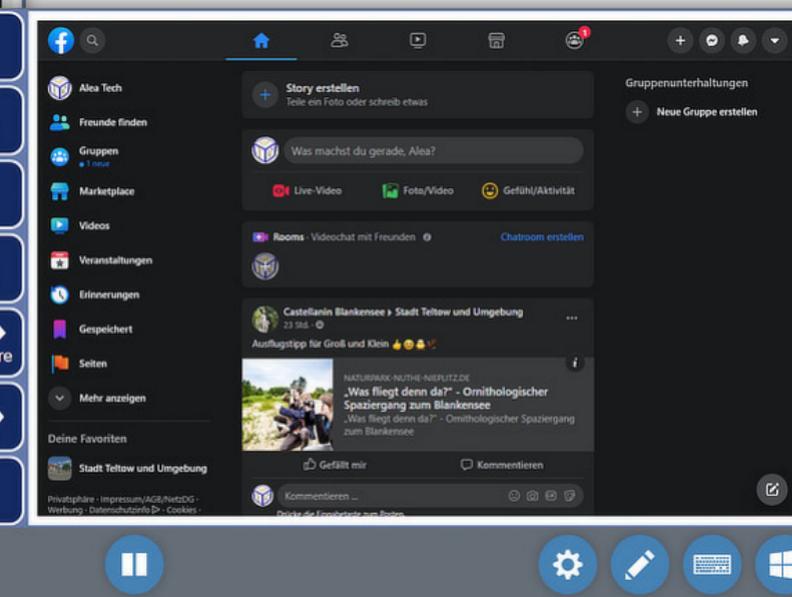
- None -

Setup - App

On the first start-up, the app will ask for your credentials. Depending on the configuration, it may also request a 2-factor authentication, typically via your smartphone. The login data will be saved until you actively reset the browser cache.



Facebook - Comment



Facebook - Main

Facebook - Main

Compose		∅
Previous item		∅
Next item		∅
Comment		∅
Like selected item		Share selected item
Previous Pop-up option		Next Pop-up option
[Enter]		∅

FAQ - Facebook	
Question	Answer
How can I access Facebook Messenger?	Facebook Messenger is not accessible with an app at the moment, but might be considered for a future release. Please send us your suggestions.



WhatsApp

The WhatsApp app provides an easily accessible interface to the popular messenger

Available functions include:

- Read and compose messages
- Send and download attachments
- Search contact list
- Listen to voices messages

Prerequisites

- WhatsApp account.
- Smartphone to perform 2-factor authentication.

Setup - Server

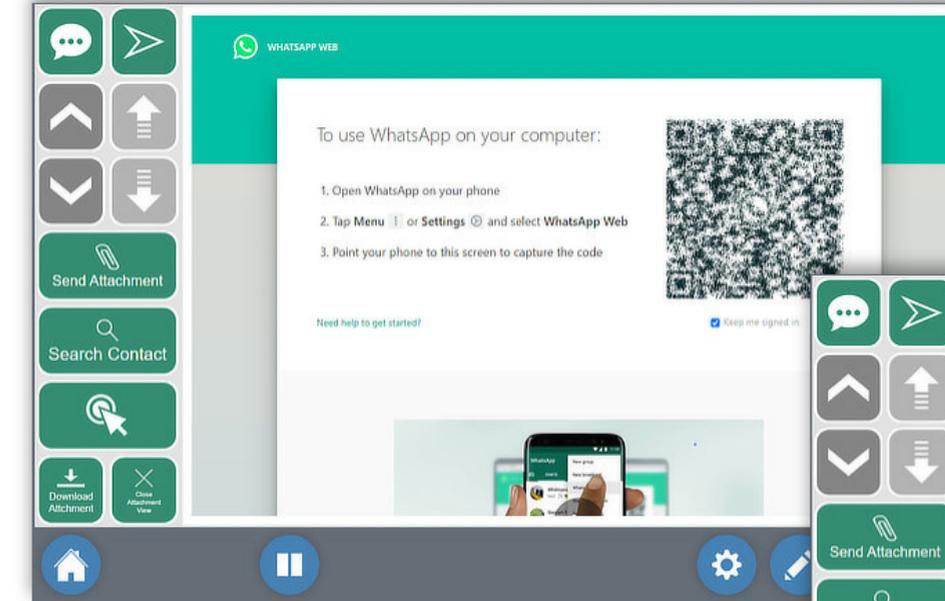
- None -

Setup - App

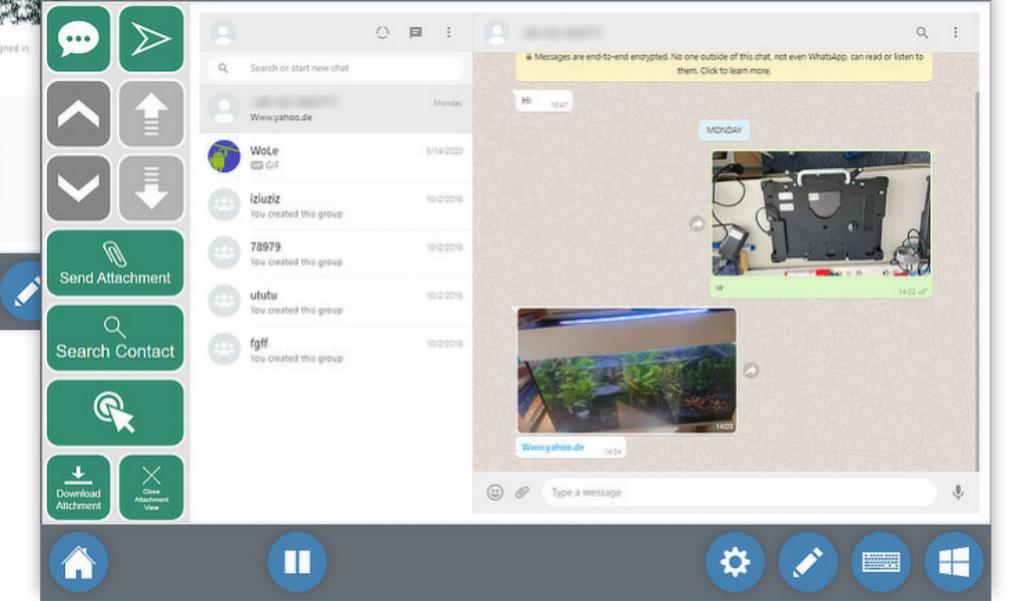
On the first start-up, the app will ask for your credentials.

Depending on the configuration, it may also request a 2-factor authentication, typically via your smartphone.

The login data will be saved until you actively reset the browser cache.

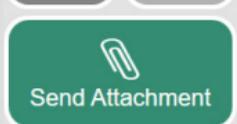
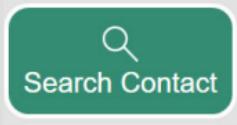


WhatsApp - Login (1st use)



WhatsApp - Main

WhatsApp - Main

Compose Message	 	Send Message
Previous Contact	 	Previous Message
Next Contact	 	Next Message
Add attachment (Will open file selection)	 Send Attachment	∅
Search a contact	 Search Contact	∅
Zoom Click Enables zoom-in click in content area.		∅
Download attachment (Saved in 'Downloads	 Download Attachment  Close Attachment View	Close attachment view.

FAQ - WhatsApp

Question	Answer
How can I save an image to my computer?	The attached image needs to be selected, therefore 'Zoom-Click' needs to be used: 1. Select [Zoom-Click] 2. Gaze on / Select image image will highlight- 3. Select [Download Attachment]- the selected file will be saved to the 'Downloads' folder.
How can I get a larger view of an received image?	1. Select with [Zoom-Click]. 2. Click on image again with [Zoom-Click] Large view. 3. To return to the message list, select [Close Attachment View].
How can I listen to a received voice message?	



Youtube

The Youtube app provides a simplified interface to watch Youtube videos.

- Search and play Youtube videos.

Prerequisites

- none
- Optional: Login with google account

Setup - Server

- None -

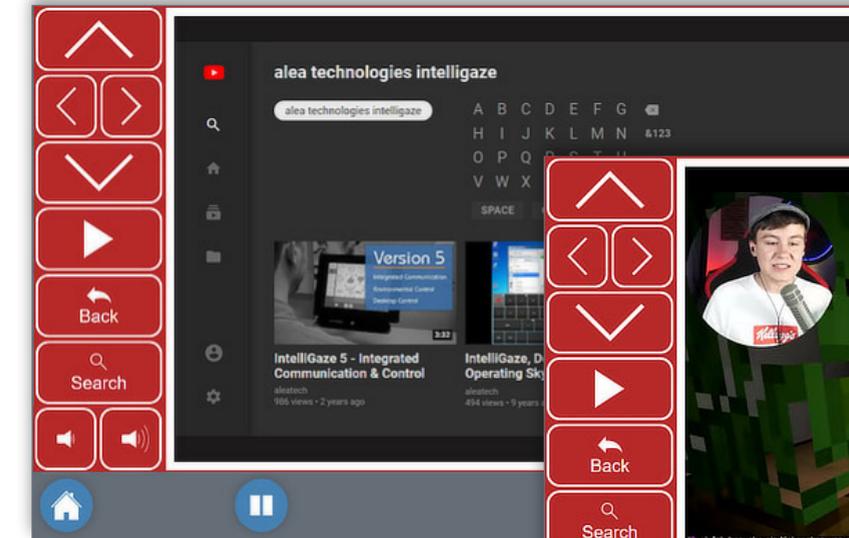
Setup - App

- None

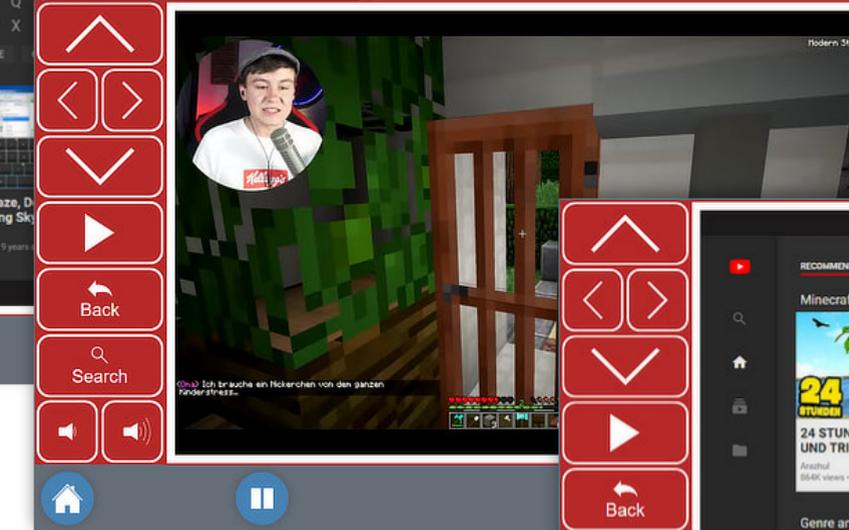
On the first start-up, the app will ask for your credentials.

Depending on the configuration, it may also request a 2-factor authentication, typically via your smartphone.

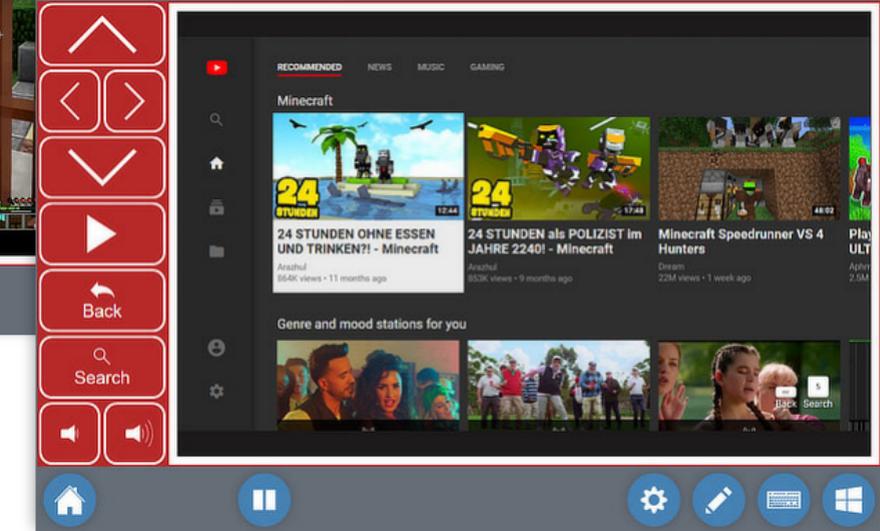
The login data will be saved until you actively reset the browser cache.



YouTube Search



YouTube Player



YouTube Main

Youtube - All Screens

	Navigate the Interface - Up
	Navigate the Interface - Left/Right
	Navigate the Interface - Down
	Play / Stop / Enter
	Back / Cancel
	Search
	Volume down / up

FAQ - Youtube	
Question	Answer

Creating and editing apps

An new app can either be created by duplicating an existing app or by starting from scratch. Duplicating an existing cloud app is the only way to create a custom app, that will benefit from cloud updates.

Typically the process would start directly from the Launcher or by using the slightly more versatile App Manager, also available from the Launcher - Edit menu.

For a general overview about the structure of an app and the App Manager as a versatile tool, please refer to the information below.

This chapter also included a step-by-step example how to create a simple app and edit several properties afterwards.

Key features of app creation and editing

- The pages of a new app need to be created from scratch and the navigation needs to be defined accordingly. Orphan pages can be re-linked inside an app.
- A cloud app is always dedicated to customize a particular website's interface. It can not be re-targeted.
- The web-browser is NOT a cloud app. Browser cells can be used in any app like any other cell.
- During use, typical data, like texts or URLs, can be shared between different apps via the provided clipboard functions.
- Apps cannot directly refer to other apps or their functions.

Notes

ICC / App Structure



Launcher

- Configurable homepage to start all apps.

App

- Typically a functional blocks to serve a specific task, i.e. Facebook access, web browsing, voice chat, etc.
- An app consists of 1..n pages.
- Cloud apps are provided and maintained by alea technologies, but can be modified by the user.
- Cloud apps are using commands from proprietary, cloud hosted libraries.

Page

- Groups functions within an app.
- A page consists of 1..n cells.
- Pages can link to other pages within an app.

Cell

- Trigger actions within a page or jump to another page in the app.
- Commands can be queued within a cell.

Command

- A single function which can be used by a cell.
- Commands are organized in groups or libraries.
- Apps which are using cloud hosted libraries are called 'Cloud Apps'.

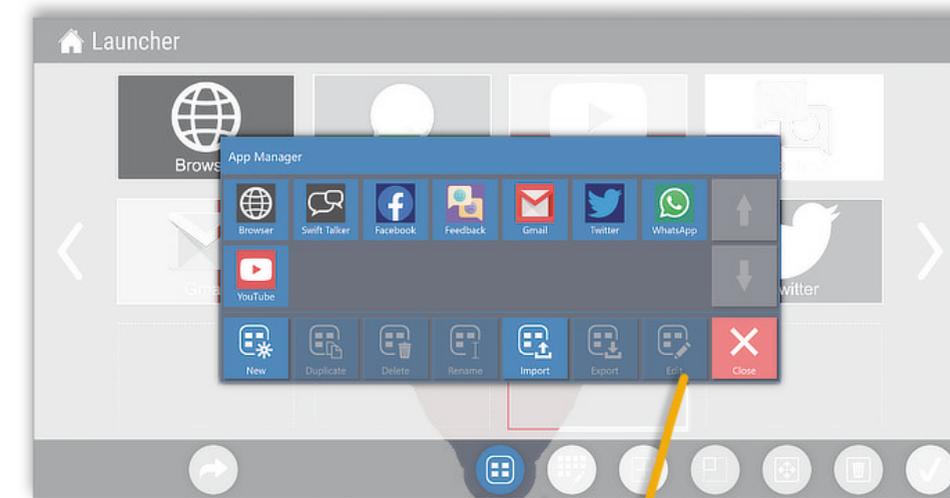
App Manager -

The App Manager can be opened from the menu bar and provides access to all app related functions:

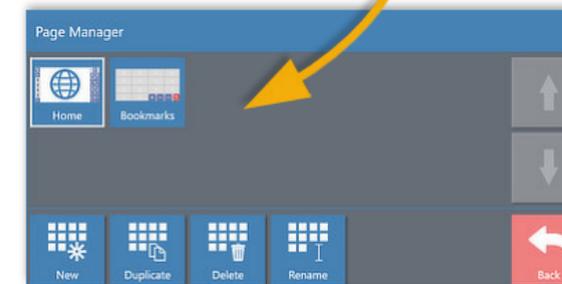
- New** creates a new, empty app
- Duplicate** duplicates an existing app
- Delete** deletes an app
- Rename** renames an app
- Import** imports an app from a file
- Export** exports an app from a file
- Edit** opens the page manager which allows access to the pages of the app.

The **Page Manager** allows to create, duplicate, delete and rename pages within an app.

To edit the content on a page, the edit mode needs to be enabled while the page is open.



Edit App
-> Page Manager



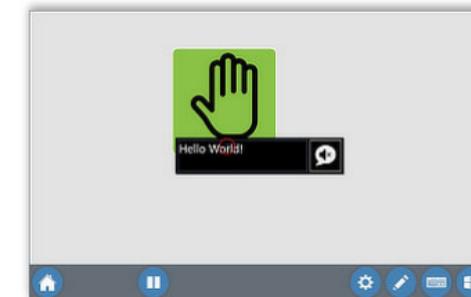
Notes

Make a new app

As a first example, we will make a simple app with one 'Talk Now' button and then edit some of the properties.

The general concept can be applied to all apps.

As shown in the app structure overview, an app needs to contain at least one page which can hold a number of cells with various commands.



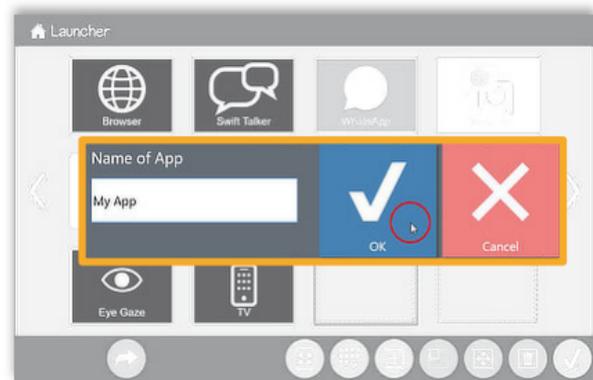
The example will start directly from the Launcher page, where a new app can be added and edited with minimal overhead.

- Create a new app with a 'Speak Now' cell.
- Change the layout
- Change the spoken text.



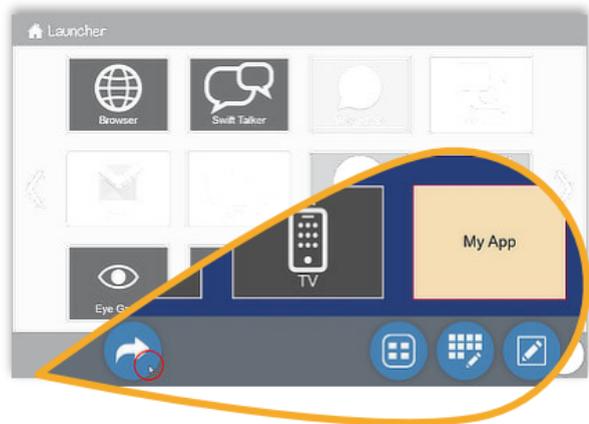
1. Add new app to Launcher:

1. Select an empty field.
2. Press (+) on the bottom menu bar.



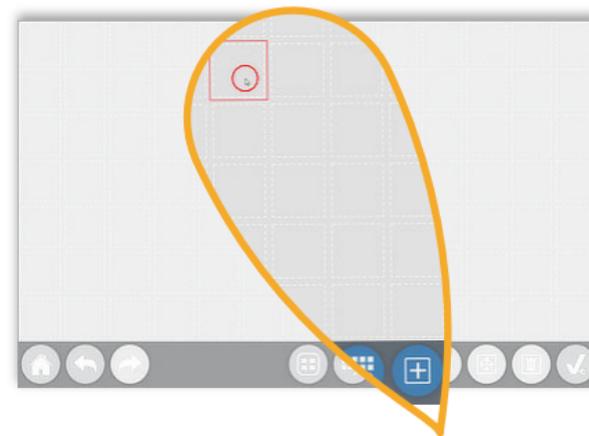
2. Name the app:

1. Enter name of the app.
2. Close by pressing OK.



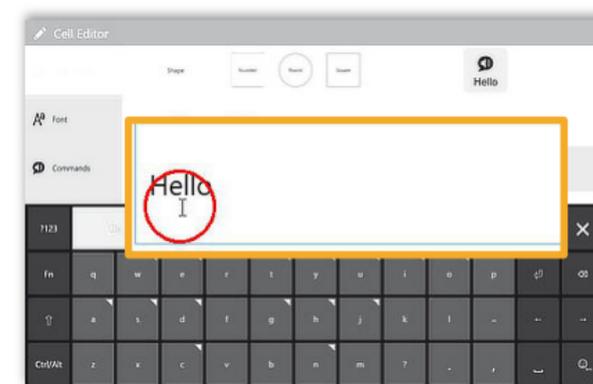
3. Open the new app for editing

1. Press 'Follow Link' arrow on the bottom menu bar.
2. Select the new app.



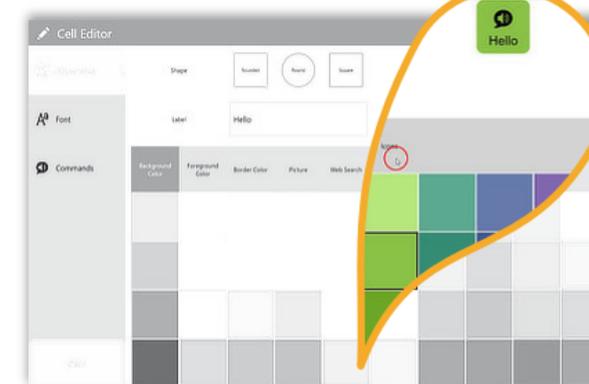
4. Create a button on empty page

1. Select an empty field.
2. Press (+) on the bottom menu bar.



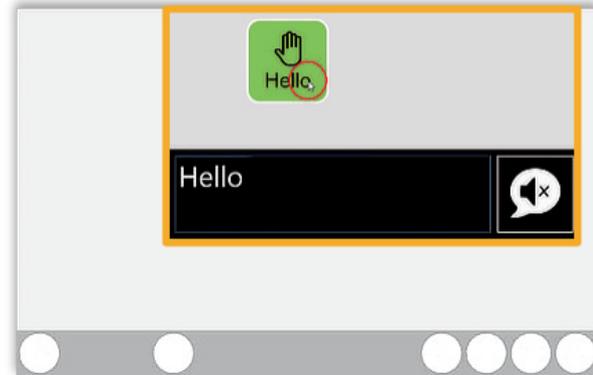
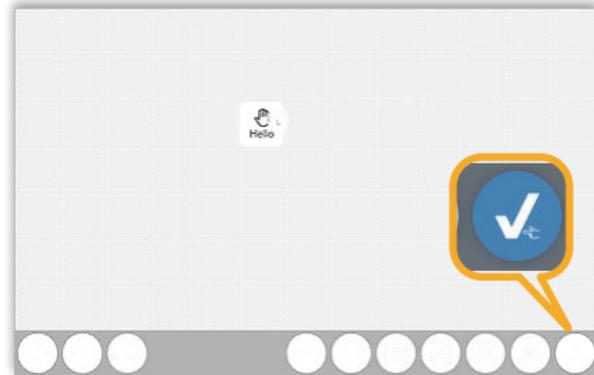
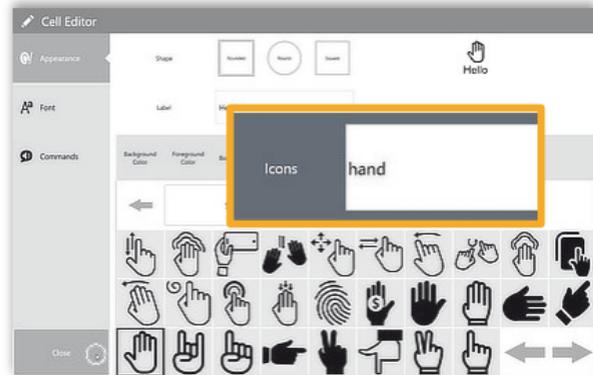
5. Enter the label

1. Enter text with OSK.
2. For ease of use the label will be used for text-2-speech, unless otherwise specified (see below).



6. Change color /shape of the button

1. Pick a shape from list on the top.
2. Select a color from the Background Color tab.



7. Change the Icon

1. Select the [Icon] tab and enter the search term.
2. Select icon from collection of results.
3. Close.

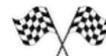
8. Close the Page Editor

1. Press [✓] on the menu bar.

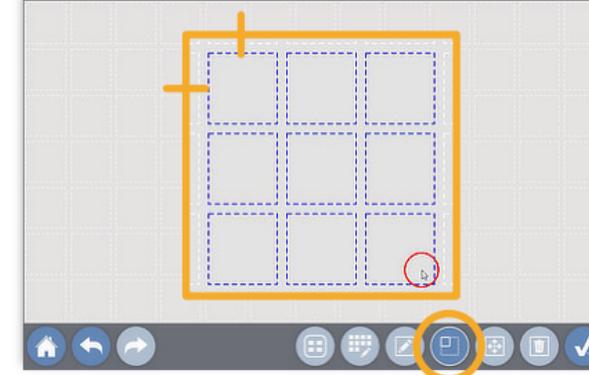
9. Use your 1st app

1. Press the 'Hello' button.
2. The entered text will be read aloud.

Congratulations!
You have build your first app!



Re-size a Button



1. Open the Page Editor

1. From the app view, press [⌘] to open the Page Editor.
2. Select the button you want to edit.

2. Resize the button

1. Select the now enabled resize function [⌘] from the menu bar.
2. Resize by selecting the new bottom right corner of the button. Max. size: 3x3.



3. Close the Page Editor

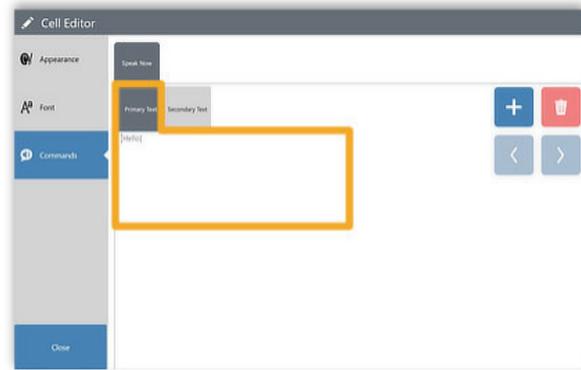
1. Press [✓] on the menu bar.

Change spoken text



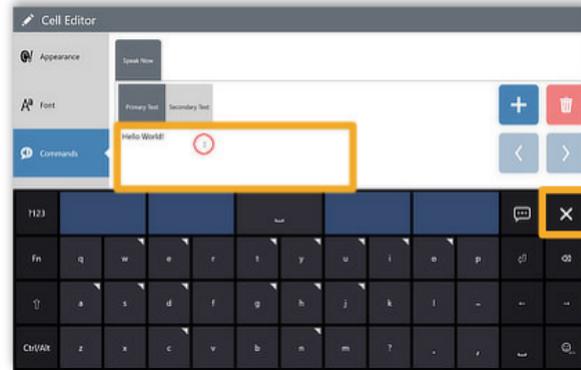
1. Open the Page Editor

1. From the app view, press  to open the Page Editor.
2. Select the button you want to edit.



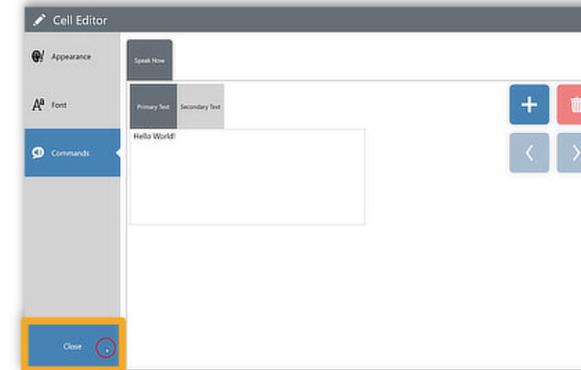
2. Open the Cell Editor

1. With the button/cell selected, press  to open the Cell Editor.
2. Select Commands
3. Select the Primary Text field, the OSK will open.



3. Enter desired text

1. Overwrite the default text (derived from label) with the desired content.
2. Close the OSK [x].



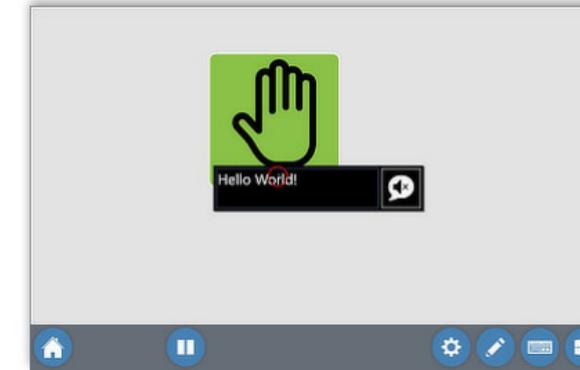
4. Close the Cell Editor

1. Select Close on the menu bar.



5. Close the Page Editor

1. Press [✓] on the menu bar.



6. Test the new output

1. Click on the button - it should read the newly entered text.



Environmental Control Functions

Environmental control functions allow the control of external devices via established IR or RF commands. Typically a proprietary interface hardware will be required.

Before using EC commands in ICC they need to be defined according to the individual installation.

IntelliGaze includes an **Environmental Control Configurator (ECC)** application for this purpose.



Currently supported system include:

- Easywave (RF)
- BJ Live (IR, RF)
- GEWA (IR)

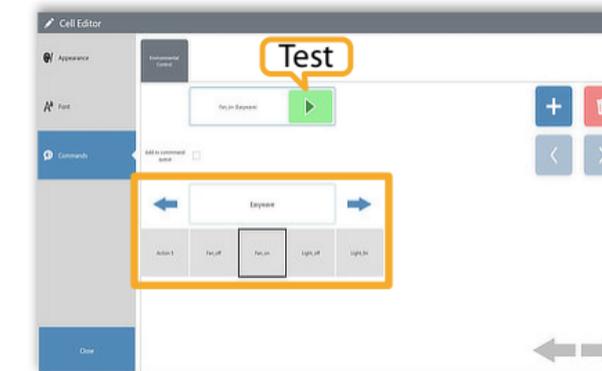
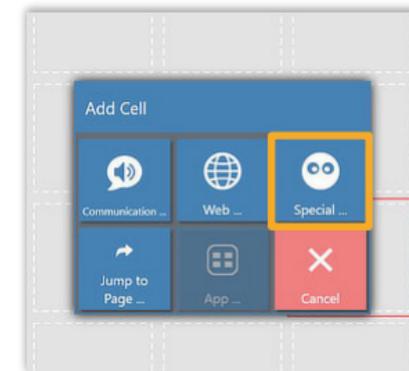
 For details regarding the the configuration of hardware dependent commands, please refer to the manufacturers literature and IntelliGaze Installation and Service manual.

 The configuration is part of the complete ICC backup&restore process.

 Please note, that many traditional environmental control functions can also be achieved by using text-2-speech output in conjunction with one of the popular home automation systems, i.e. Amazon Alexa or Google Home.



Adding an EC command



1. Add a Cell

1. In the Page Editor, select a location and press [+] to add a new cell.
2. Select Special Cell from the dialog.

2. Select EC-cell

1. Select to add Environmental Control cell.

3. Select command

1. Select pre-defined function from list.
2. The control command can be quickly tested by pressing the Test-button.

Notes

Latest ICC-Apps



<http://apps.intelligaze.com>

ICC Demo-Videos on Youtube



<http://tiny.cc/vv23tz>



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