

# How to use Elementa - Elabnext version (December 2021 v0.1)

## 1: Getting started

Awesome that you want to use Elementa and make your life in the lab easier! This doc is written so new users can get up to speed in no time. In this section we will show you how to download Elementa on your iOS or Android device.

To get your Elementa credentials, go to the [website](#), scroll down to “Apply for Demo” and click the button. We will use the email address to make an account for you and send you a download link.

## 2: Set up device

### *Android Permissions (Android 11 recommended)*

To work properly Elementa needs some basic permissions, which are **Microphone, Storage Camera and Bluetooth**.

To check these permissions and change them, here are some useful walkthroughs for both older (Android 10) and newer (Android 11) phones:

[How to use the new app permissions in Android 10](#)

[How to manage app permissions in Android 11](#).

Now that we have the correct permissions, we need to do one more thing. Elementa is built as an Accessibility Service. That means it needs certain permissions to run in the background (for example while you are using Whatsapp, or when your screen is locked). If these permissions are not given your phone can 'kill' the app, which we definitely do not want during your important work!

<https://support.google.com/accessibility/android/answer/9078941?hl=en>

To add Elementa:

- 1) Open **Settings**
- 2) Search for **Accessibility**
- 3) Scroll down to **Downloaded Services** (depending on your OS)
- 4) Tap on **Elementavoiceservice**
- 5) **Turn the radio button on, and tap OK**

### *iOS Permissions (iOS 14 and up)*

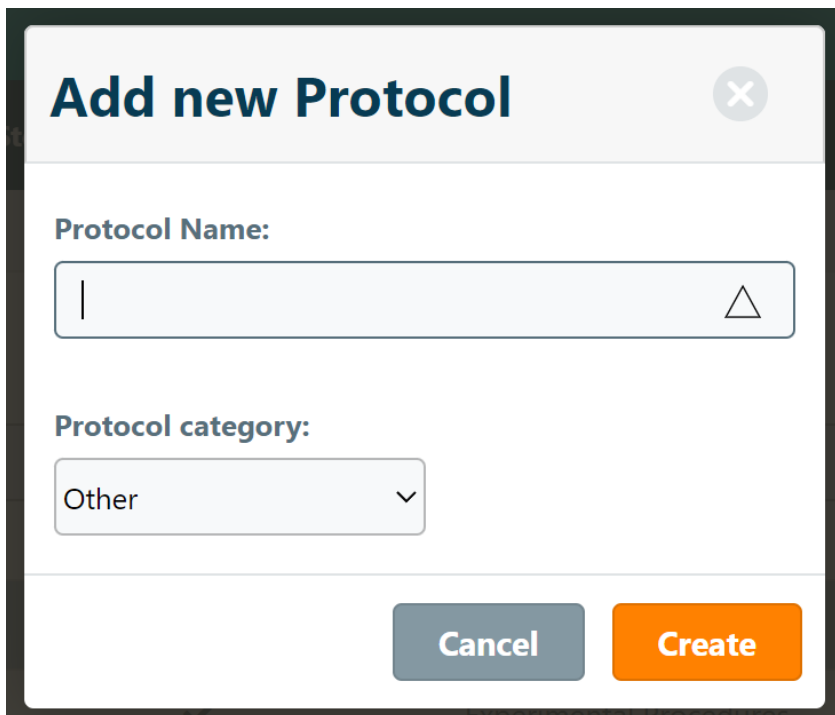
We made sure that for iOS the app asks for the right permissions to work. So no need for giving permissions here.

### 3: Set up your connection and prepare your experiments

#### Elabjournal

To ensure the best experience with Elementa, make sure you add a protocol as follows:

- 1) Go to the protocol section, and **add a new protocol**



The screenshot shows a modal dialog box titled "Add new Protocol" with a close button (X) in the top right corner. Inside the dialog, there are two main sections. The first section is labeled "Protocol Name:" and contains a text input field with a vertical cursor and a small upward-pointing triangle icon on the right. The second section is labeled "Protocol category:" and contains a dropdown menu with the word "Other" and a downward-pointing chevron icon. At the bottom of the dialog, there are two buttons: a grey "Cancel" button and an orange "Create" button.

- 2) Write your steps like you normally would, **if you copy and paste lines, make sure you do it without formatting**, else it can cause errors.
- 3) Make an experiment, and add your protocol to it!

## 4: Using Elementa


### Before you go in to the lab

- 1) If you have a Bluetooth headset, please connect it with your device before you open the Elementa application.
- 2) Make sure you gave the correct permissions.

### Connection ElabJournal

- 1) Log in to you ElabJournal account.
- 2) Hover over your name in the top right corner, and select **Apps and Connections**.

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#### eLab Mobile App

Extend the functionality of eLab with the Mobile App. View your data in the Electronic Lab Notebook or access lab protocols. Use the information, move or archive samples or reserve lab instruments.

[Apple Store](#)[Google Play](#)[Manage Authentication](#)

- 3) At eLab Mobile App, click on **Manage Authentication**.
- 4) Generate a new QR code, make sure you have Mobile App selected.
- 5) Scan the QR code with Elementa when prompted.

*NOTE: When you log in, the app will remember your QR code/API key. If you want to remove them and start over, use the “**LOG OUT**” button in the Settings tab.*

## Commands during experiment

After you are connected, go to your experiment. You can use the **search bar** to find the correct one! There you will see your protocol listed in to steps. You can now lock your screen (make sure it stays on the “protocol” tab), and put it in your pocket.

- 1) Wake up Elementa by saying “**Elementa**”
- 2) Elementa will respond with a beep, indicating that you can start your command.
- 3) You can say your command **after the beep**.
- 4) Before you can navigate your protocol steps, you use the command “**Start protocol**”
- 5) After, you can navigate your experiment with the commands “**Next**”, “**Previous**” or “**Repeat**”. If you want to jump to a certain step, use the command “**Jump to X**”, where X is the step number you want to jump to.
- 6) During your experiments, make notes with the commands “**Make a note**”, or “**Make a note for this step**”, start speaking after you hear “What is your note” / “What is your step note?” and the beep.
- 7) When you are finished with your note, you will hear “**Processing your note**”.
- 8) If you have samples, and you can see them in the Sample tab, you can use the number to find the location. E.g. “**Find sample 1**”.
- 9) You can set timers, these are in minutes. The command that is used is “**Set a timer for X minutes**”, where X is the number of minutes you want to set the timer to. When it finishes, you will hear “**Your timer has ended**”.

### Tips:

- If the room is noisy, you should tweak the Voice settings -> Sensitivity to “Very Strict”.
- Vice versa, if you get cut off while speaking, set the Sensitivity to a more sensitive setting.

## After your experiment

You can check all your notes in the Notes tab of the Experiment screen. Every note is clickable, where you get 4 options:



**Delete the note**



**Listen back to the original recording.**



**Edit the note text.**



**Share your notes through other channels.**

When you are done, you just need to click the **“Cloud”** button in the bottom center. Then all your notes will be send to your ELN. That was easy!