

User Manual

[2IS70] App Development

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Yoke

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Introduction

Yoke is a system that can be used to provide shortcuts for your computer using your phone's touch screen. It consists of an android app, as well as a computer receiver. The system makes use of the hardware available on your devices, so that you only have to install the software to get it to work. The shortcuts can accomplish an assortment of goals: opening a site, opening a program, keyboard shortcuts, simulate a trackpad and device controls (like adjusting the volume). The main goal of *Yoke* is to make working with your computer faster and easier.

In this document we will describe how to install and use *Yoke*.

Setup

Installation

The installation of *Yoke* consists of two parts:

1. Installing the android application
2. Installing the computer receiver

Both programs need to be present for *Yoke* to work and currently the desktop receiver only fully supports Windows-based operating systems. Basic functionality might also work on Linux and Mac OS, but not all features will be present or work correctly.

Android application installation

Requirements

- Phone is running **Android Marshmallow** or above
- Phone is able to connect via Bluetooth

Procedure

The app will be installable in two ways; using the provided apk or through the Google Play Store:

Google Play

1. Look for *Yoke* in google play.
2. Press install.
3. Follow the Google Play Store's on-screen instructions.

APK

1. Either directly download the APK to your phone or connect to a computer and transfer the APK to an accessible directory on the phone.
2. Open the directory that contains the APK on the android device.
3. Tap the APK to start installation.
4. Follow Android's on-screen instructions.

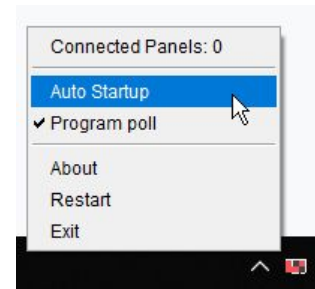
Computer receiver installation

Requirements

- Computer is running Windows 10 or above
 - Linux or Mac might work, but is not guaranteed
- Computer is able to connect via Bluetooth

Procedure

1. Download or otherwise obtain the 'Yoke Receiver.jar' file.
2. Run the jar by double clicking it.
3. Locate it in the tray and right click it to show the context menu.
4. Select Auto Startup in order to automatically launch the application on startup



Enabling bluetooth

Description

Since *Yoke* makes use of a Bluetooth connection between your phone and your pc/laptop, you have to enable Bluetooth on both your phone and your pc/laptop for the app to work.

Procedure

Phone

1. Go to settings.
2. Go to Bluetooth
3. Tap the toggle button to enable Bluetooth.

Computer

1. Right-click on the Windows logo on the bottom left of the screen.
2. Left-click on "Search".
3. Search for "Bluetooth".
4. Click on the toggle button to enable Bluetooth.

Pairing phone to pc/laptop

Description

After enabling Bluetooth, you have to pair your phone to your pc/laptop. This way your phone is actually connected to your pc/laptop.

Procedure

1. On your computer, go to the Bluetooth settings (see previous segment).
2. Click on the button with the plus symbol with the text "Add bluetooth or other device" next to it.
3. There are now three options: "Bluetooth", "Wireless display or dock", and "Everything else". Select "Bluetooth".
4. Click on the device name that corresponds to your phone.
5. Click the button "pair".
6. On your computer screen a pop-up with a code will appear, and on your phone a pop-up will appear also with a code.
7. If the codes match, press "yes" on your computer.
8. Press "connect" on your phone.

General usage

Starting the app

Description

Another crucial step that you have to make to enjoy the app is starting it.

Procedure

1. Press the icon that shows the *Yoke* logo on your phone.

Tutorial

Description

The first time that you open the app, it will show a tutorial on how to use *Yoke*. If you wish to see the tutorial again, you can open it from the settings screen.

Procedure

- To go to the next slide, either swipe right or press the “next” button.
- To go to the previous slide, either swipe left or press the “back” button.
- To exit the tutorial, go to the final slide and press the “finish” button.

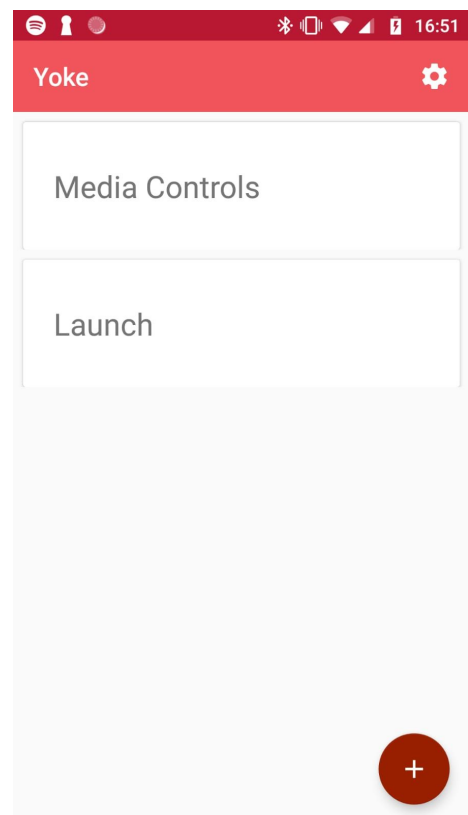
Select profile

Description

Since the app comes with multiple preset profiles and the possibility of creating your own profiles, the home screen allows you to select a profile.

Procedure

1. On the home screen, find the profile you want to use
2. Press on abovementioned profile



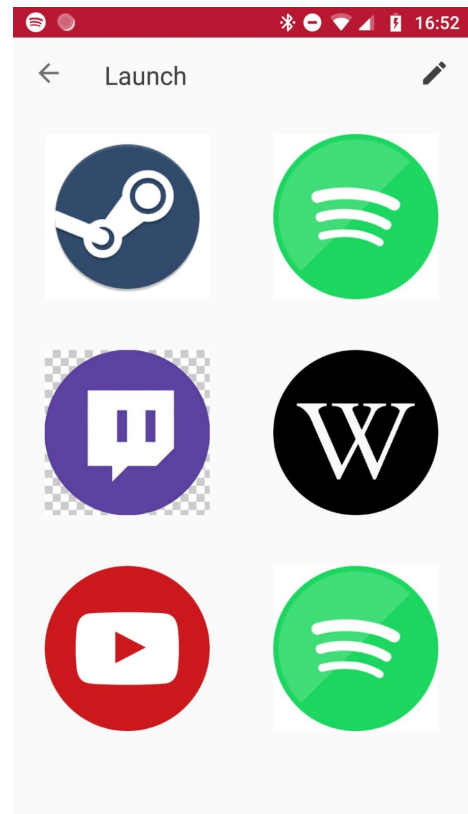
Use Macro

Description

Each profile contains multiple macros that each have their own function. Here follows the explanation on how to use a macro.

Procedure

1. On a profile screen, find the macro you want to use
2. Press on said macro



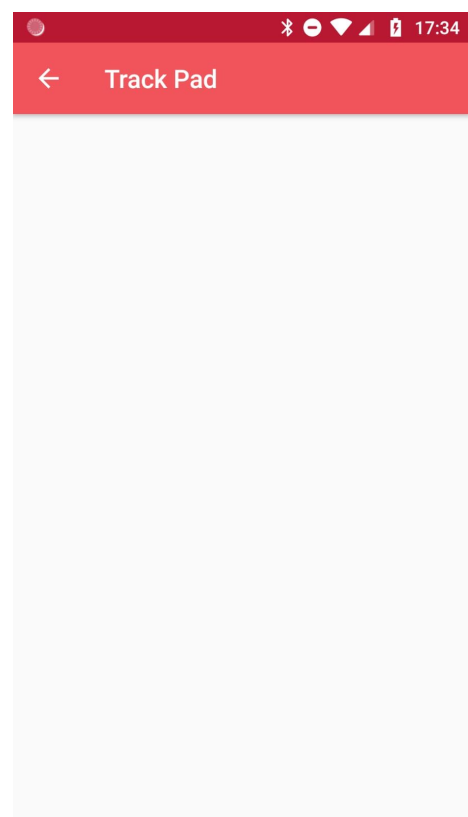
Use trackpad

Description

Yoke also provides the option to use your phone as a trackpad for your pc/laptop.

Procedure

1. Open the macro for the trackpad, as described in the **Use macro** segment.
2. Press the white space and drag in the screen to move the cursor
3. Press and immediately release the white space to left click



Customisation

Create profile

Description

As mentioned before, you are able to create your own profiles with different combinations of macros.

Procedure

1. Press the button with the plus symbol. This will create an empty profile
2. Continue customising your profile as described in the **Edit profile** segment

Edit profile

Description

If you wish to change the buttons and name of your profile, you can do so from the profile edit screen.

Procedure

1. Open the profile you wish to edit.
2. Press the pencil icon on the top right of your screen.

There are multiple aspects of the profile that you can change, each with its own procedure:

Change the profile's name

1. Tap the text field that contains the current name of the profile.
2. Type the name that you would like for the profile to have.

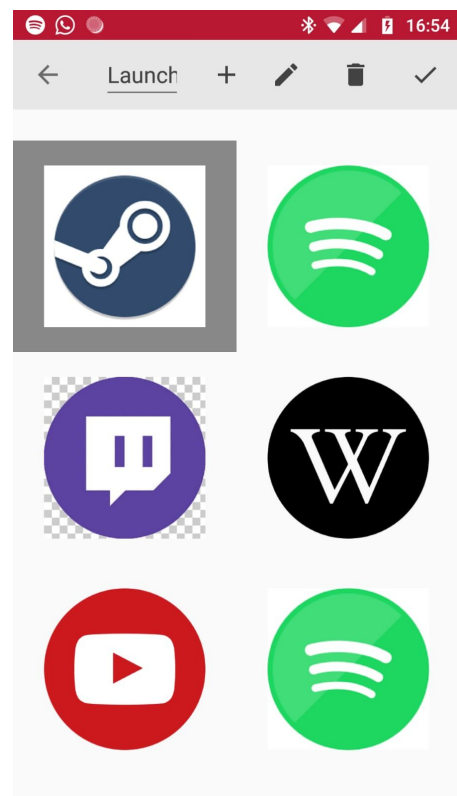
Change order of macros

If you wish to alter the order of the macros, you can drag and drop the macros to change their order.

Deleting macros

1. Select the macro you wish to delete by pressing on it.
2. Press the garbage can icon on the top of the screen

Edit current macros



1. Select the macro you wish to edit by pressing on it.
2. Press on the pencil icon at the top of your screen. This will take you to the edit macro screen.
3. Follow the steps as described in the **Edit macro** segment.

Adding existing macros

1. Press the plus symbol at the top of your screen. This will open a list of existing macros.
2. Press on one of the macros to select it.

Creating new macros

1. Press the button with the plus symbol at the top of your screen. This will open a new screen with a list of existing macros.
2. At the bottom of this screen there is also a button with a plus symbol. Press this button to go to the Macro Creation screen.
3. Follow the steps as described in the **Create macro** segment

Change profile index

Description

If you use one profile particularly often, you might want it to appear at the top of the list. You can easily achieve this by manually moving it there.

Procedure

1. Find the profile you want to move in the home screen
2. Long press the profile until you feel a vibration
3. Drag the profile to the desired location

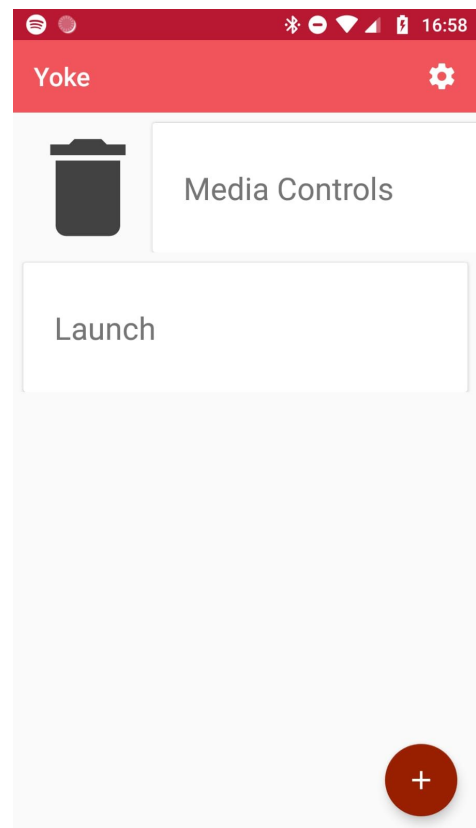
Delete profile

Description

If you notice that you have a profile that you never use and is only taking up space, you always have the possibility to delete profiles.

Procedure

1. Find the profile you want to delete in the home screen
2. Swipe the profile to the right
3. Press the button that appeared from behind the profile
4. Confirm deletion in the prompt



Create macro

Description

Next to multiple preset macros, you are also able to create your own macros.

Procedure

Navigate to the Macro Creation screen as explained in the **Edit Profile** segment.

Just as for the profiles, the macros also have multiple aspects that can be changed, once again each with its own procedure. Once you navigate to the Macro Creation screen, you will start in the "Appearance" tab. Here you can adjust every appearance related aspect of your macro:

Choose foreground picture/colour

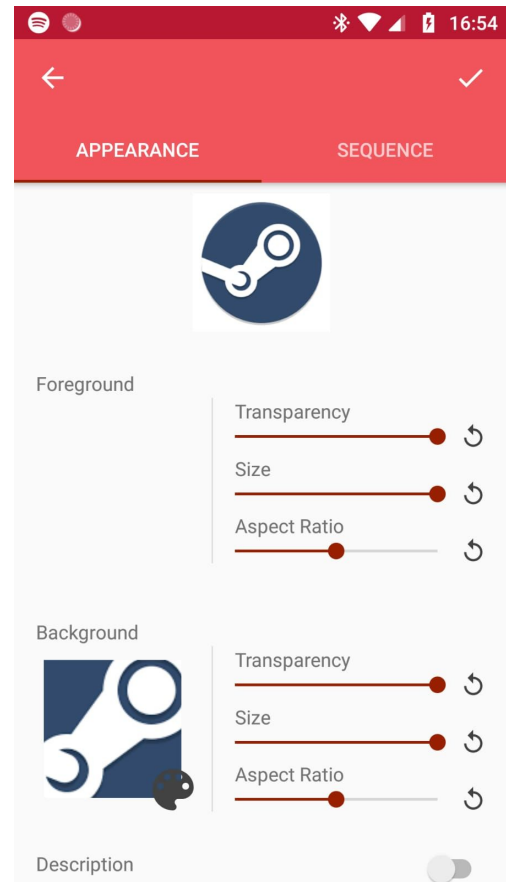
1. If you want a picture for the foreground, press the empty space below "Foreground" text. This will open your gallery.
2. Pick a picture to use as foreground.
3. If you want to use a colour as foreground, press the paint palette icon below "Foreground" text. This will open a colour picker.
4. Click on the colour that you would like.

Edit foreground picture/colour

1. If you wish to adjust the transparency of the picture/colour, you can use the slider on the right of foreground preview, that has the text "transparency".
2. If you want to reset the transparency to the previous value, press the arrow that is going in a circle, to the right of the transparency slider.
3. If you wish to adjust the size of the picture, you can use the slider on the right of foreground preview, that has the text "size".
4. If you want to reset the size to the previous value, press the arrow that is going in a circle, to the right of the size slider.
5. If you wish to adjust the aspect ratio of the picture, you can use the slider on the right of foreground preview, that has the text "aspect ratio".
6. If you want to reset the aspect ratio to the previous value, press the arrow that is going in a circle, to the right of the aspect ratio slider.

Choose background picture/colour

1. If you want a picture for the background, press the empty space below "Background" text. This will open your gallery.



2. Pick a picture to use as background.
3. If you want to use a colour as background, press the paint palette icon below "Background" text. This will open a colour picker.
4. Click on the colour that you would like.

Edit background picture/colour

1. If you wish to adjust the transparency of the picture/colour, you can use the slider on the right of background preview, that has the text "transparency".
2. If you want to reset the transparency to the previous value, press the arrow that is going in a circle, to the right of the transparency slider.
3. If you wish to adjust the size of the picture, you can use the slider on the right of background preview, that has the text "size".
4. If you want to reset the size to the previous value, press the arrow that is going in a circle, to the right of the size slider.
5. If you wish to adjust the aspect ratio of the picture, you can use the slider on the right of background preview, that has the text "aspect ratio".
6. If you want to reset the aspect ratio to the previous value, press the arrow that is going in a circle, to the right of the aspect ratio slider.

Choose whether you want a description for the macro and create it

1. If you want a description for your macro, enable the toggle button next to the text "Description".
2. A text field will appear. If you click on it you can change the text.
3. If you wish to change the colour of the text, you can press the paint palette icon.
4. A colour picker will pop up, and you can simply press the colour that you want.

To change the functionality of the macro, you have to go to the "Sequence" tab of the Macro Creation screen. You do this by pressing the area that says "Sequence".

Create a shortcut

1. Click on the plus box on the left side to add a new command to the sequence
2. You will be switched to a different screen, where you can choose an already existing command or create a new one using the pc program
3. Once you have selected a command, the screen returns to the Sequence tab

Edit a shortcut

1. If you want to change the amount of repetitions you can click on the arrows on the box above or below the repetitions
2. If you want to change the interval between repetitions you can click on the arrows on the box above or below the interval
3. If you want to change the command, you can click on the text itself and it will bring you back to the selection screen, where you can select an existing command or add a new one
4. If you want to change the order of the sequence, simply drag the commands to the desired order

Remove a shortcut

1. If you want to remove the command, swipe the command to the left and click on the trash can icon

After you are done with changing the appearance and the functionality of the macro, press the check mark at the upper right of the screen to save the macro.

Edit macro

Description

If you have an existing macro, but wish to alter its function or how it looks, you can do this by editing the macro.

Procedure

1. Navigate to the Edit macro screen, as described in the **Edit Profile** segment.
2. To change any aspect of the macro, the corresponding steps in the **Create macro** segment can be taken.

Settings

Description

Any other things, ranging from different colours to a different language, that you wish to change in the app, can be changed in the Settings.

Procedure

Language

1. Press on the block with the text "Language". A pop-up will appear with all possible languages.
2. Press on the language that you prefer.

Main color

1. Press on the circle next to the text "Main color". A color picker will appear.
2. Press on the color that you would like to use in the app.

Light theme

1. If you wish to enable the light theme (a color scheme), press the toggle button next to the text "Light theme".

Connection type

1. Press on the block with the text "Connection type". A pop-up will appear with the possible connection types.
2. Press on the connection type that you prefer.

Automatic Desktop Startup

If you wish to enable the automatic desktop startup, press the toggle button next to the text "Automatic Desktop Startup".

Replay Tutorial

If you wish to replay the tutorial, press the text "Replay tutorial".

About

If you are interested in some extra information about **Yoke** (for example who made it), you can press the text "About".

