

#### 京都先端科学大学

#### **Introduction to Design (Track 3)**

8.2 Hands-on: Audio Player App

**Zilu Liang** 

www.zilu-liang.net/id3

# Important!!

#### Please disinfectize your hands before entering the classroom!

入室前にアルコールを使用して手指消毒を行ってください。

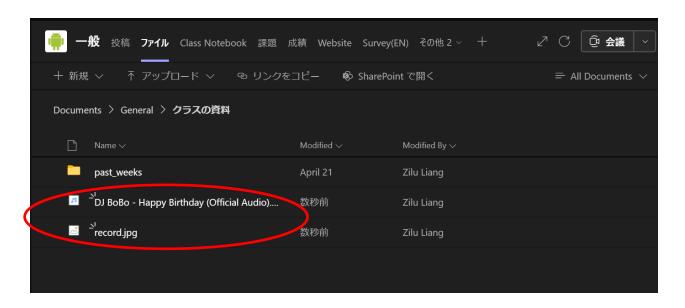
#### Please disinfectize your chair and table!

- ①ペーパーにアルコールを噴霧してください。
- ②アルコールが噴霧されたペーパーで、使用箇所(テーブル、 椅子など)を拭き取ってください。
- ③使用済のペーパーは廊下のごみ箱に捨ててください。



#### **Download Media Files**

Download the image and audio from Teams. You can also prepare your original image and audio.



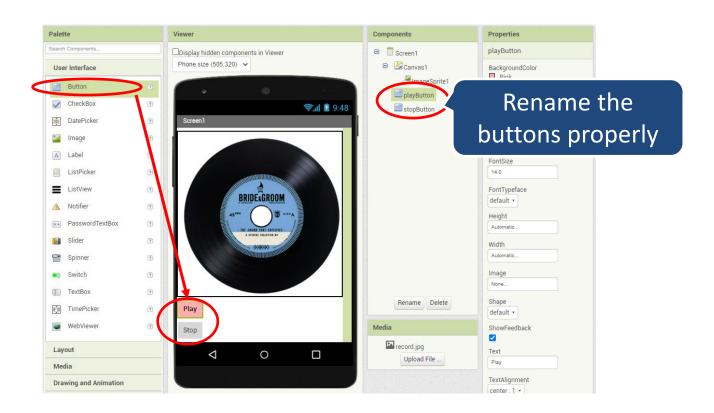
#### **Add Canvas**



## **Add ImageSprite**

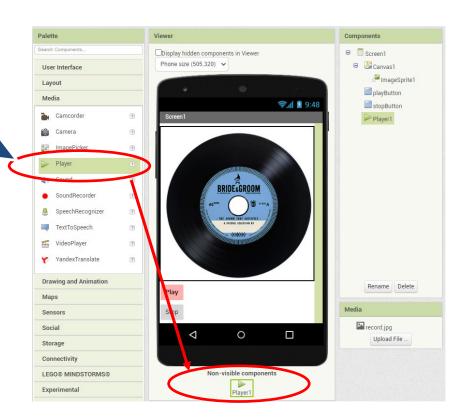


#### **Add Buttons**



# **Add Player**

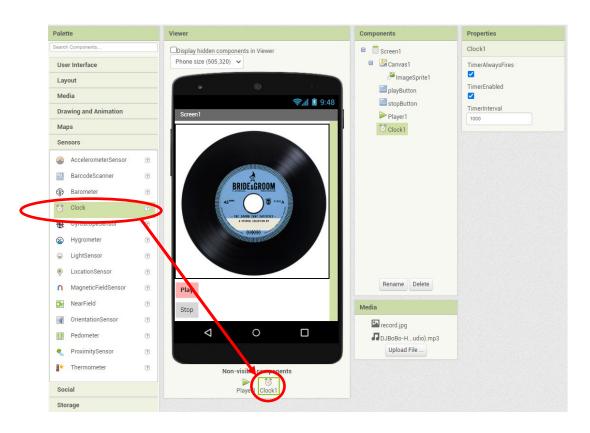
Because we need to play long audios, we should use 'Player' instead of 'Sound'



# **Upload Audio File**



#### Add 'Clock' for animating the ImageSprite



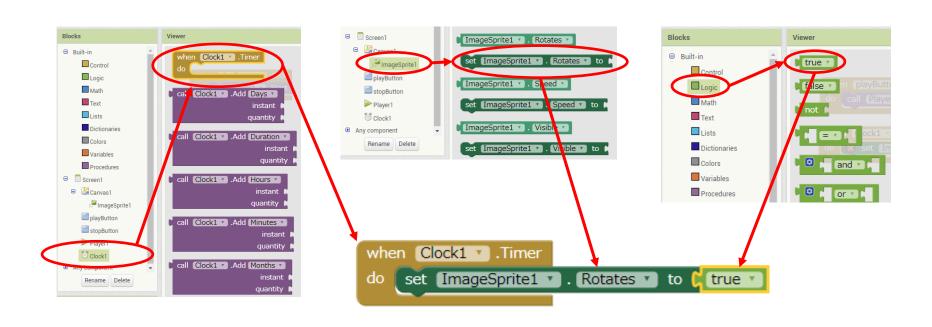
#### Switch to blocks view



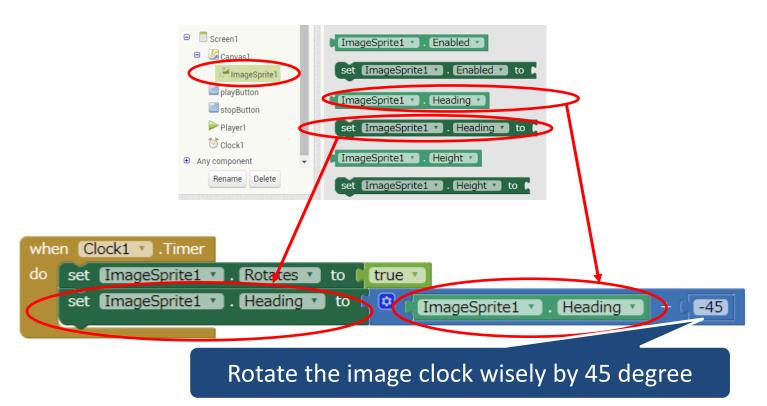
## Add click handler to 'playButton'



#### Make the record image rotate



#### Make the record image rotate



#### **Test App on Emulator**

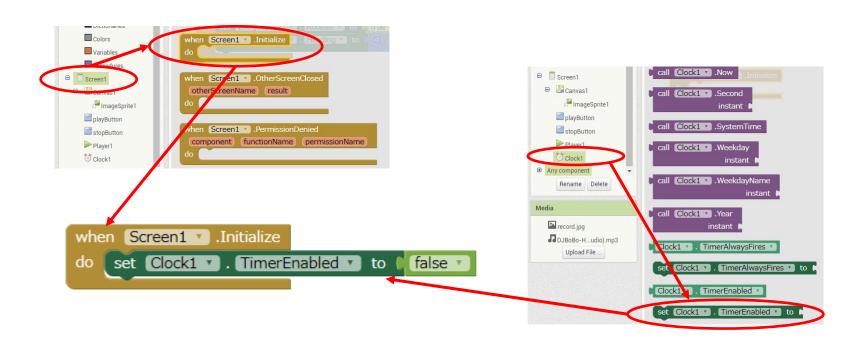
Click on the aiStarter on your computer, you should see the following window open.

```
aiStarter
             [21/Apr/2021 17:00:23] "GET /echeck/ HTTP/1.
         -- [21/Apr/2021 17:00:24] "GET /start/ HTTP/1.1
              [21/Apr/2021 17:00:24] "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:24]
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:24] "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:24] "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:24] "GET /echeck/ HTTP/1
                                     "GET /echeck/ HTTP
              [21/Apr/2021 17:00:26]
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:27] "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:28] "GET /echeck/ HTTP/1
                                     "GET /echeck/ HTTP
              [21/Apr/2021 17:00:30]
                                     "GET /echeck/ HTTP/1
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:32] "GET /echeck/ HTTP/1
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:34]
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:36]
                                     "GET /echeck/ HTTP/1
                                     "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:38] "GET /echeck/ HTTP/1
                                      "GET /echeck/ HTTP/1
              [21/Apr/2021 17:00:40]
                                     "GET /echeck/ HTTP/1
                                      "GET /echeck/ HTTP/1
127. 0. 0. 1 - - [21/Apr/2021 17:00:42] "GET /echeck/ HTTP/1
127. 0. 0. 1 - - [21/Apr/2021 17:00:43]
127.0.0.1 - - [21/Apr/2021 17:01:09] "GET /replstart/emulator-5554 HTTP/1.1" 200 0
```

## Did you notice any problem?

# The image is rotating all the time! What if we only want it to rotate after the playButton is licked?

#### Disable the clock when app starts

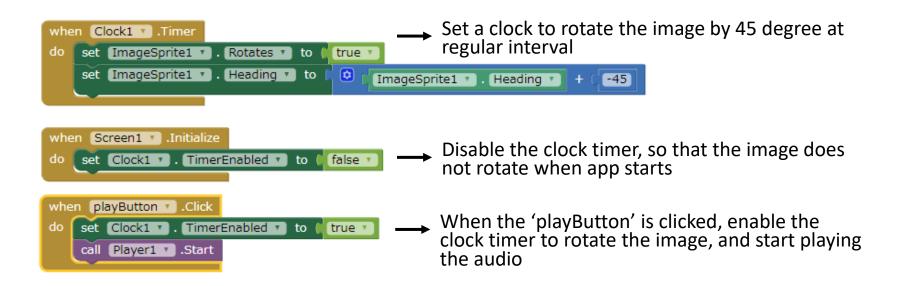


#### Enable the clock only when 'playButton' is clicked

```
when playButton . Click

do set Clock1 . TimerEnabled . to true . Call Player1 . Start
```

## **Code Anatomy: Audio Player App**



# **Assignment**

#### 8.1 Complete the hands-on tasks in the tutorial

- ✓ If you finish all the steps in class, show your Audio Player App to one of the instructors before you leave
- ✓ If you cannot finish all the steps, you can work on them after class and show your app to one of the instructors in the class next week

# **Assignment (Optional)**

If you have time, why not adding more features to the app?

- **8.2.1** Make the 'Stop' button work: when the 'Stop' button is clicked, the audio player will stop playing and the image will stop rotating.
- **8.2.2** Add a 'Pause' button on the UI; when the 'Pause' button is clicked, the audio player will pause, and the image will stop rotating.

