

Build Magic 8 Ball

Goal: Build a Magic 8 Ball app that shows an answer after you shake your device

- An Image of an 8-Ball.
- A Label that gives directions and a Label that shows the answer.
- Create a List with 7 potential answers

Resources

- Magic 8 Ball template:
goo.gl/k4d2Tg

Choose a Challenge Level!

Mild

Program the app using this video tutorial: goo.gl/FLtjq9

Medium

Use the [user interface and algorithm reference](#) to guide your programming.

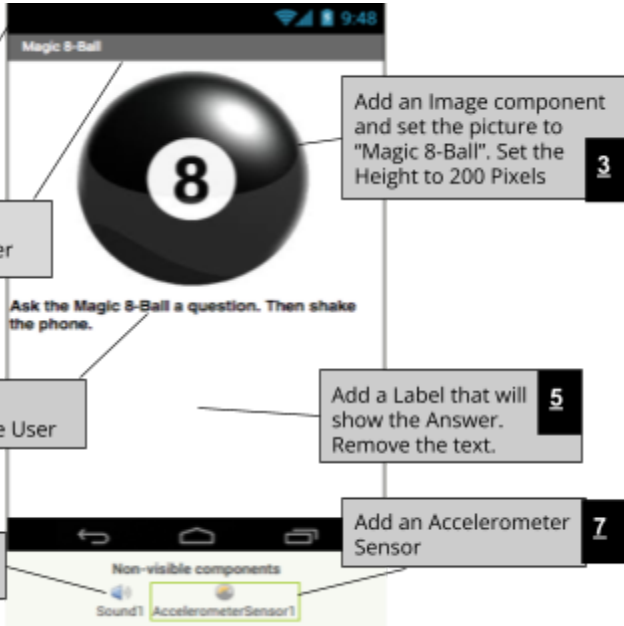
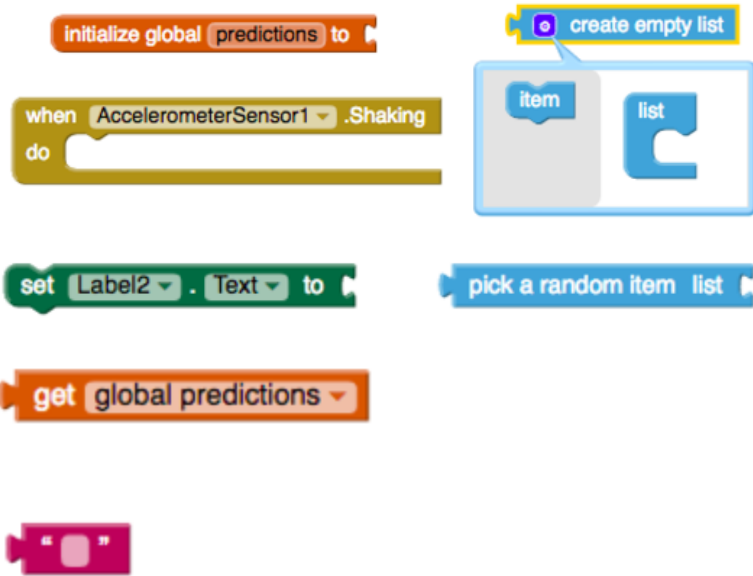
Spicy

Build the app using only the template and description above.

Finished Early?

Start customizing your app! (You'll continue in the next lesson.) Get started with these [customization challenges](#).

Medium Level Guidance

User Interface	Blocks to Use
1 Under Screen, name the app "Magic 8-Ball". Also, set Screen Orientation to Portrait 2 Under "Screen", set AlignHorizontal to Center 3 Add an Image component and set the picture to "Magic 8-Ball". Set the Height to 200 Pixels 4 Add a Label with Directions for the User 5 Add a Label that will show the Answer. Remove the text. 6 Add a Sound component 7 Add an Accelerometer Sensor Ask the Magic 8-Ball a question. Then shake the phone. Non-visible components Sound1 AccelerometerSensor1 	Initialize global predictions to when AccelerometerSensor1 .Shaking do create empty list item list set Label2 . Text to pick a random item list get global predictions 
Algorithm	
Event	Response
Accelerometer Sensor	When the device is shaken, an answer from the list will show in the Answer Label.

Solution: goo.gl/6lPHXS

Customization Challenges

Challenge #1 Play a sound every time the device is shaken. The sound should play before the Answer is given.

Challenge #2 Have the device speak the answer after the device is shaken.