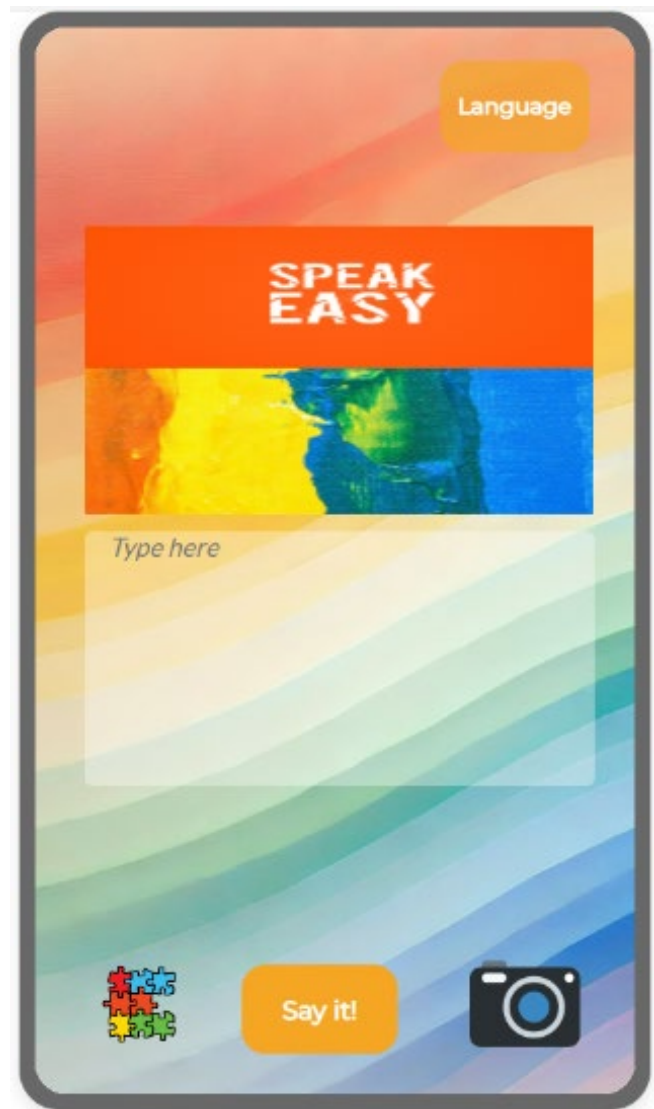


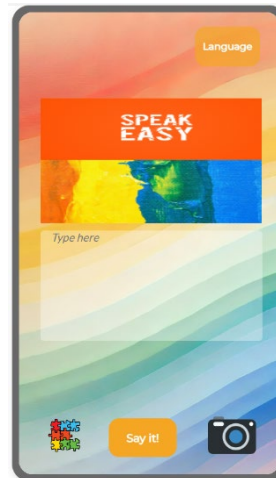
# SpeakEasy Code Blocks



## Screen: Logo Screen

### 5 Elements

- Text-to-Speech Input
- Say it! Button
- Language Button
- Camera Button
- Category Button



```
when ImageRecogScreenLink Click
do
  navigate to screen_ImageRecognition
```

When the camera button is clicked, the user is taken to the Image Recognition Screen or Camera Screen.

```
when Button_Languages Click
do
  navigate to Screen_languages
```

When the Language Button is clicked, the user is taken to the Languages Screen where he can choose from 5 different languages (French, Hindi, Spanish, Japanese, English).

```
when letsTalk_button Click
do
  say translation of Text_Input2's Text from English (en-US) to app variable language in app variable language
  set Text_Input2's Text to ""
```

The text input (where it says, "type here", translates whatever was written by the user from English to the chosen language. Then when the Say it! Button is clicked, it voices out the translation.

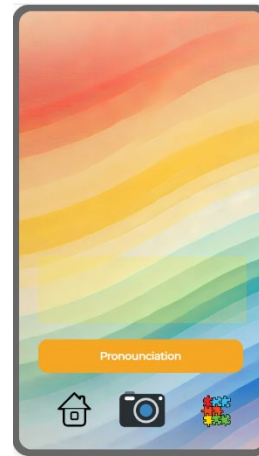
```
when CategoryButton Click
do
  navigate to Screen1_category test
  say translation of "let's go to categories" from English (en-US) to app variable language in app variable language
```

When the Category button is clicked, it will take the user the Categories Screen and say the translation or the phrase "let's go" from English to the chosen language.

## Screen: Image Recognition

### 6 Elements

- Image Output
- Image Description Output
- Pronunciation Button
- Home Button
- Camera Button
- Category Button



```
when homeButton1 Click
do
  say translation of "let's go to home screen" from English (en-US) to app variable language in app variable language
  navigate to logoScreen
```

When the Home Button is clicked, the app will say the translation of the phrase “let’s go to home screen” from English to the chosen language. Afterwards, it takes the user to the Logo Screen.

```
when CategoryButton2 Click
do
  say translation of "let's go to categories" from English (en-US) to app variable language in app variable language
  navigate to Screen1_category test
```

When the Category button is clicked, it will take the user the Categories Screen and say the translation of the phrase “let’s go” from English to the chosen language.

```
when CameraButton Click
do
  set ImagePhotofromCamera's Picture to photo from camera
  set PhotoDescription's Text to translation of description of image from photo from camera from English (en-US) to app variable language
```

When the Camera Button is clicked, the app will open the device’s camera. It allows the users to take a picture. The photo taken will appear on as an output image on the top half part of the screen. The description of the photo will appear below the image. It is translated from English to the chosen language.

```
when Button_Pronunciation Click
do
  say translation of PhotoDescription's Text from English (en-US) to app variable language in app variable language
```

When the Pronunciation Button is clicked, the app will say the translation of the photo description from English to the chosen language.

## Screen: Category

### 17 Elements

- Home Button
- Camera Button
- 15 Categories
  - Fruit
  - Vegetables
  - Drinks
  - Snacks
  - Feelings
  - Places
  - Activities
  - People
  - Things we do
  - Colors
  - Clothing
  - Body Parts
  - Numbers
  - Weather
  - Toys



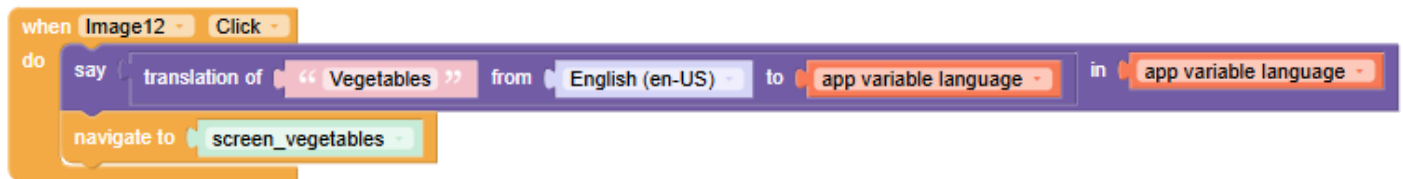
When the Home Button is clicked, the app will say “let’s go to home screen” from English, translated to the chosen language. Afterwards, it takes the user to the Logo Screen.



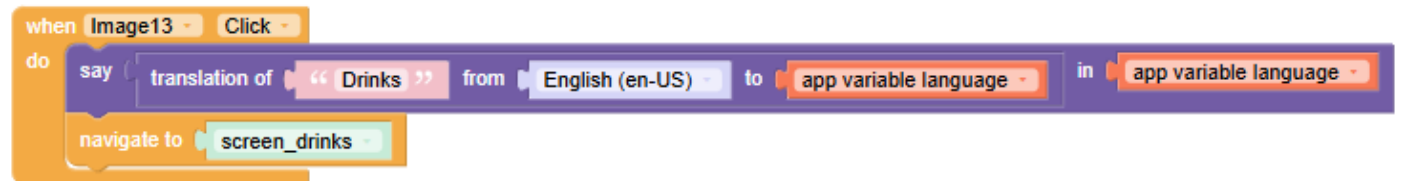
When the Camera Button is clicked, the app says “let’s take a picture” from English to the chosen language. Afterwards, it takes the user to the Image Recognition Screen.



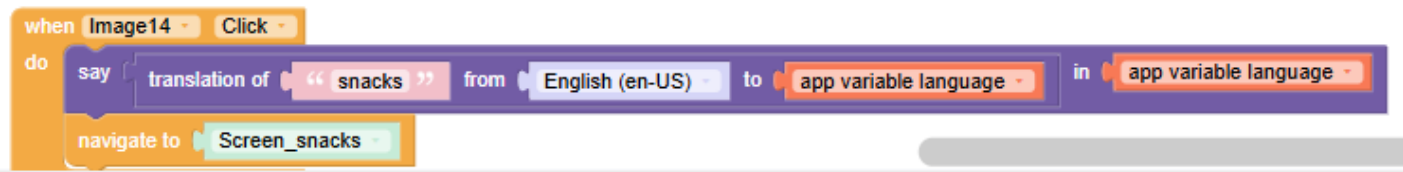
When the image of an apple is clicked, the app says the translation of the word “fruits” to the chosen language then take the user to the Item Screen, showing a list of different fruits.



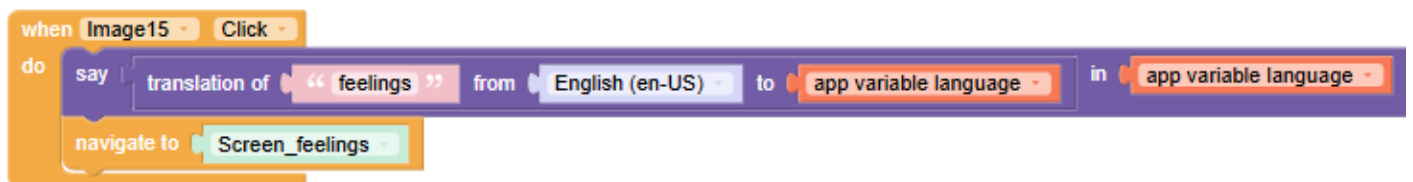
When the image of the carrot is clicked, the app says the translation of the word “vegetables” to the chosen language then take the user to the Item Screen, showing a list of different vegetables.



When the image of the glass of water is clicked, the app says the translation of the word “drinks” to the chosen language then take the user to the Item Screen, showing a list of different drinks.



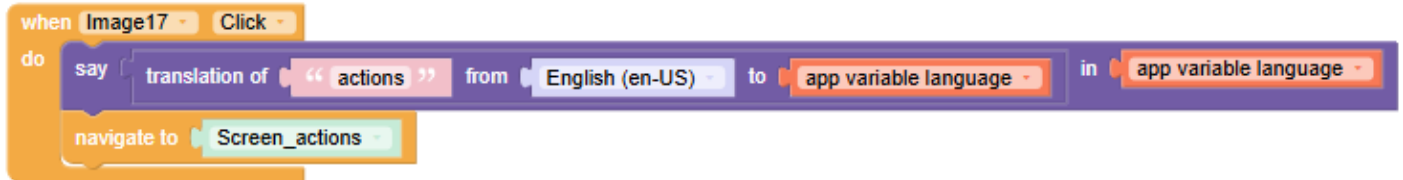
When the image of a bag of chips is clicked, the app says the translation of the word “snacks” to the chosen language then take the user to the Item Screen, showing a list of different snacks.



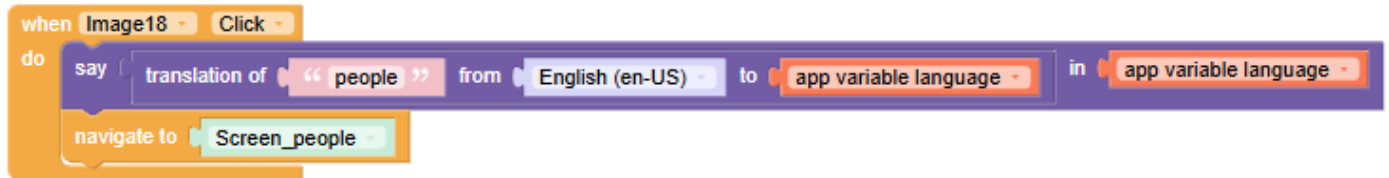
When the image of a laughing boy is clicked, the app says the translation of the word “feelings” to the chosen language then take the user to the Item Screen, showing a list of different feelings and emotions.



When the image of a house is clicked, the app says the translation of the word “places” to the chosen language then take the user to the Item Screen, showing a list of different places.



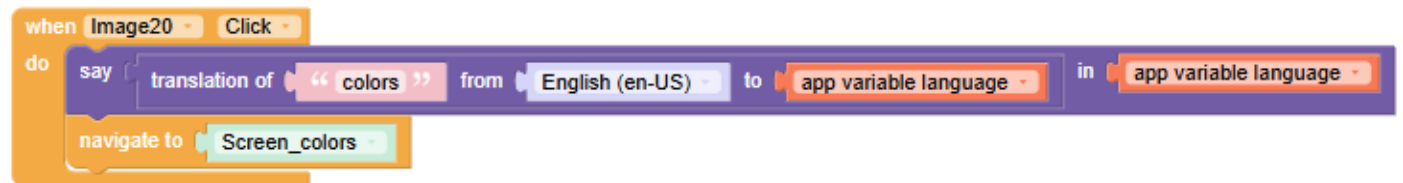
When the image 2 children playing is clicked, the app says the translation of the word “activities” to the chosen language then take the user to the Item Screen, showing a list of different actions and activities.



When the image of father and a son is clicked, the app says the translation of the word “people” to the chosen language then take the user to the Item Screen, showing a list of different types of people.



When the image of a girl brushing her teeth is clicked, the app says the translation of the word “things we do” to the chosen language then take the user to the Item Screen, showing a list of different personal action things we do.



When the image of a blue circle is clicked, the app says the translation of the word “colors” to the chosen language then take the user to the Item Screen, showing a list of different colors.

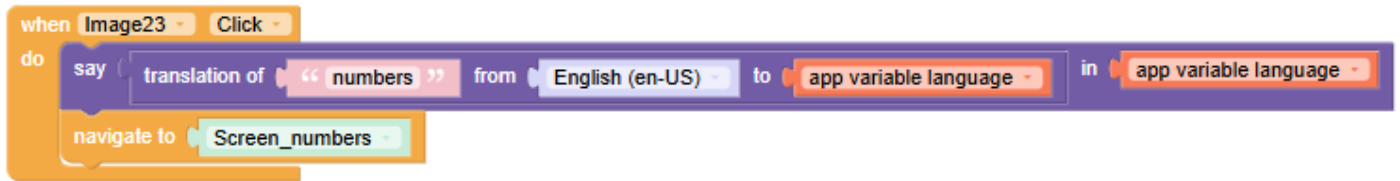


When the image of a t-shirt is clicked, the app says the translation of the word “clothing” to the chosen language then takes the user to the Item Screen, showing a list of different types of clothing apparel.



When the image of an arm is clicked, the app says the translation of the word “body parts” to the chosen language then takes the user to the Item Screen, showing a list of different body parts.

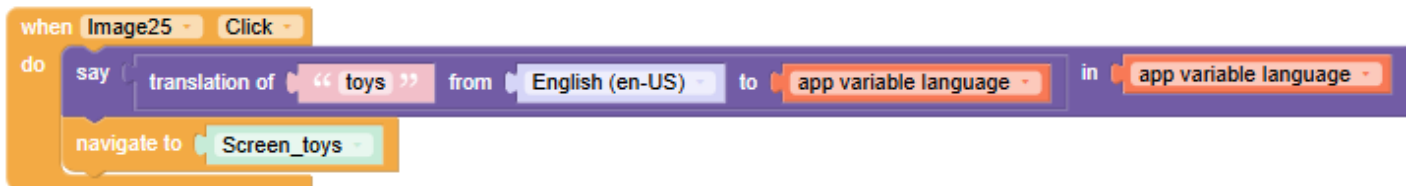




When the image of number is clicked, the app says the translation of the word “numbers” to the chosen language then takes the user to the Item Screen, showing a list of different numbers.



When the image of an cloudy scenery is clicked, the app says the translation of the word “weather” to the chosen language then takes the user to the Item Screen, showing a list of different types of weather.

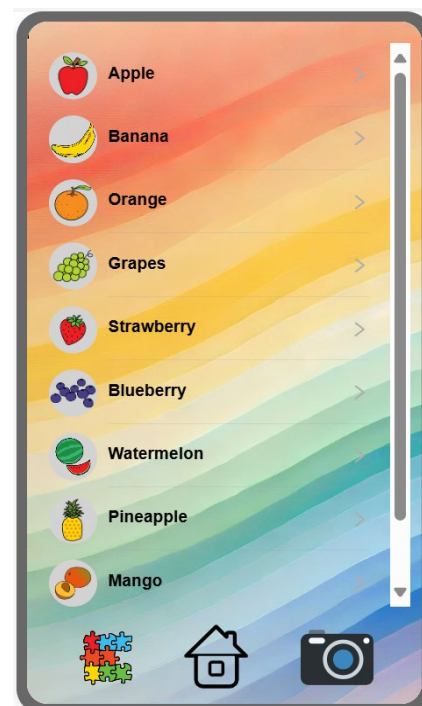


When the image of a basketball is clicked, the app says the translation of the word “toys” to the chosen language then takes the user to the Item Screen, showing a list of different fruits.

## Screen: Item List

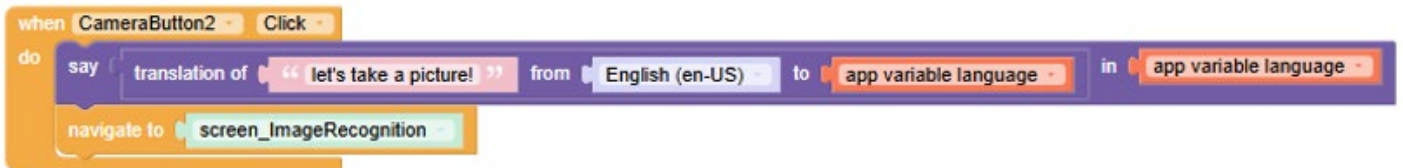
6 Elements

- Data Viewer List
- Category Button
- Home Button
- Camera Button





When any image of an item is clicked on the list, the app says the translation of the name of that item from English to the chosen language.



When the camera button is clicked, the app says the translation of the phrase “let’s take a picture” from English to the chosen language then takes the user to the Image Recognition Screen (camera).



When the category button is clicked, the app says the translation of the phrase “let’s go to categories” from English to the chosen language then takes the user to the Category Screen.



When the Home Button is clicked, the app will say “let’s go to home screen” from English, translated to the chosen language then takes the user to the Logo Screen.



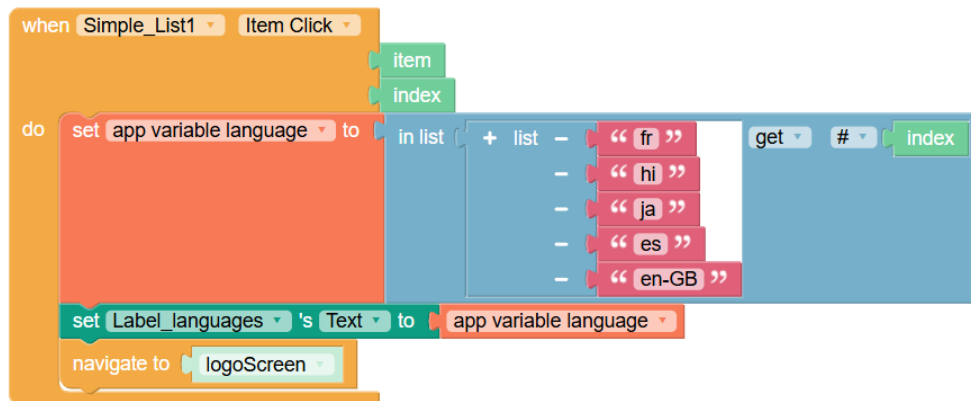
## Screen: Language

### 1 Element

- Simple List

```
initialize app variable language to "en-GB"
```

The code created a variable which allows the app to change from one language to another from the list. The initial language set for the app is English.



When the user chooses a language from the list, it sets the language of the app to that language. The codes listed above are for French (fr), Hindi (hi), Japanese (ja), Spanish (es) and UK English (en-GB).