

Project 161



**Coding
School**



AI and Machine Learning

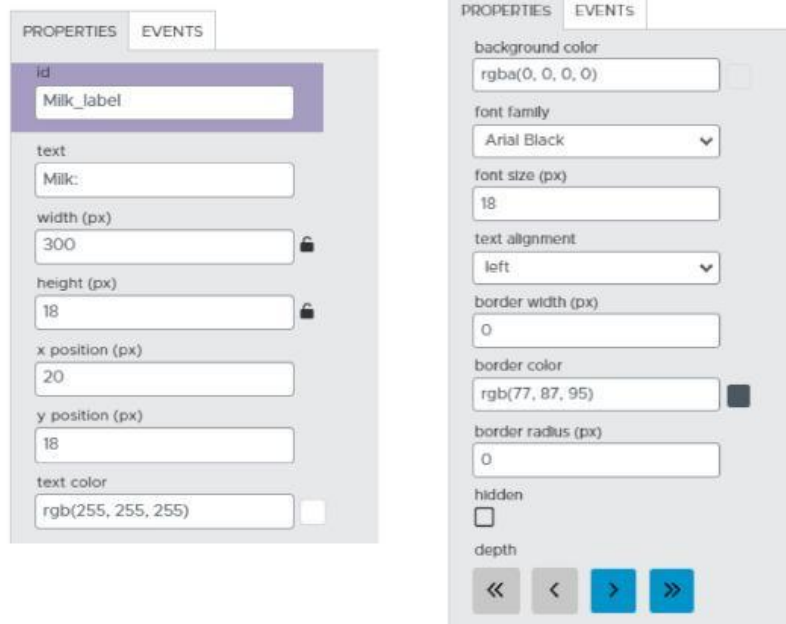


See the web page

- ❖ Here we further improve the mobile app in the fourth part of lesson 10 of the AI and machine learning course on Code.org.



- ❖ Now let's change the colour of the labels in screen1.



- ❖ Give the font size of each label as 18. Set the text colour as rgb(255, 255, 255)

❖ And give the font size of the dropdown as 15.

The image shows two panels of a design tool's 'PROPERTIES' section. The left panel is for a widget with the ID 'Milk_dropdown'. It has a list of options: 'Yes' and 'No'. The font size is set to 15. The right panel shows styling options: background color is white, font family is Arial, font size is 15, text alignment is center, border width is 1, border color is black, border radius is 4, and the widget is not hidden.

The image shows a mobile app interface with a dark blue background. It has a series of dropdown menus for 'Milk:', 'Toothed:', 'Backbone:', 'Domestic:', 'Catsize:', and 'Legs:'. Below these is a 'Predict' button and a 'Run' button.

- ❖ Duplicate screen1 to add another screen to this app.

The screenshot shows a mobile application interface for a classification task. It has a title bar labeled 'screen2'. The main content area is a dark blue rectangle containing six white dropdown menus. Each dropdown has a label above it: 'Milk:', 'Toothed:', 'Backbone:', 'Domestic:', 'Catsize:', and 'Legs:'. The selected values are 'Yes', 'Yes', 'Yes', 'No', 'Yes', and '4'. Below these is an orange 'Predict' button and a white text input field. At the bottom of the screen is a grey bar with a yellow 'Run' button.

- ❖ Now from the labels and dropdowns on screen1, save only the labels and dropdowns related to milk, toothed and backbone and delete the other labels and dropdowns.
- ❖ Also give the font size of the dropdown as 15
- ❖ Delete the Predict button and the corresponding text input area.
- ❖ Give x and y position of Milk_label as below.
 - x – position : 45
 - y – position : 50
- ❖ Give x and y position of toothed_label as below.
 - x – position : 45
 - y – position : 135
- ❖ Give the x and y position of Backbone_label as below.
 - x – position : 45
 - y – position : 225

❖ Give the x and y position of milk_dropdown as below.

- x – position : 55
- y – position : 90

❖ Give x and y position of milk_dropdown as below.

- x – position : 55
- y – position : 170

❖ Give x and y position of milk_dropdown as below.

- x – position : 55
- y – position : 265

❖ Now give a button for that screen.

The image shows two side-by-side screenshots of a design tool's property panels for a button. The left panel is titled 'PROPERTIES' and 'EVENTS'. It shows the 'id' as 'buttonNext', 'text' as 'Next', 'width (px)' as 100, 'height (px)' as 40, 'x position (px)' as 105, 'y position (px)' as 325, 'text color' as 'rgb(255, 255, 255)', and 'background color' as '#aeb34c'. The right panel shows 'background color' as '#aeb34c', 'font family' as 'Arial Black', 'font size (px)' as 15, 'text alignment' as 'center', 'image' as 'Choose...', 'border width (px)' as 1, 'border color' as 'rgb(77, 87, 95)', 'border radius (px)' as 16, 'hidden' as 'false', and 'depth' as 0. Navigation buttons are at the bottom of the right panel.

❖ Then screen1 will be displayed as follows.

- ❖ Now code to move to screen2 when the Next button is clicked.

```
onEvent (▼ "buttonNext", ▼ "click", function () {
  setScreen (▼ "screen2");
});
```

- ❖ Now from the labels and dropdowns on screen 2, save only the labels and dropdowns related to domestic, catsize and lags and delete the other labels and dropdowns.
- ❖ Leave the Predict button and delete the text input area next to that button.
- ❖ For domestic label, give the id of the label as Domestic_label. Also give the id of its dropdown as Domestic_dropdown.
- ❖ Give x and y position of domestic_label as below.
 - x – position : 45
 - y – position : 50

- ❖ Give x and y position of domestic_dropdown as below.
 - x – position : 55
 - y – position : 90
- ❖ According to the cat size label, give the id of the label as Catsize_label. Also give the id of its dropdown as Catsize_dropdown.
- ❖ Give the x and y position of Catsize_label as follows.
 - x – position : 45
 - y – position : 135
- ❖ Give the x and y position of the Catsize_dropdown as follows.
 - x – position : 55
 - y – position : 170
- ❖ According to the Legs label, give the id of the label as Legs_label. Also give the id of its dropdown as Legs_dropdown.
- ❖ Give the x and y position of the Legs_label as follows.
 - x – position : 45
 - y – position : 225
- ❖ Give x and y position of milk_dropdown as below.
 - x – position : 55
 - y – position : 265

- ❖ For the Predict button, give the id as animalClass3_predict and give the styles as follows.

PROPERTIES EVENTS

id
animalClass3_predict

text
Predict

width (px)
100

height (px)
40

x position (px)
105

y position (px)
325

text color
rgb(255, 255, 255)

background color
rgb(174, 179, 76)

background color
rgb(174, 179, 76)

font family
Arial Black

font size (px)
15

text alignment
center

image
Choose...

border width (px)
1

border color
rgb(77, 87, 95)

border radius (px)
16

hidden
☐

depth
0

- ❖ Now give another screen and give its background colour as below.

PROPERTIES EVENTS

id
screen3

background color
rgb(86, 92, 138)

image
Choose...

Make Default

- ❖ Now add label to that screen and give its styles as below.

PROPERTIES EVENTS

id
animalClass3_prediction

text

width (px)
175

height (px)
25

x position (px)
70

y position (px)
200

text color
rgb(255, 255, 255)

background color
rgba(0, 0, 0, 0)

background color
rgba(0, 0, 0, 0)

font family
Arial Black

font size (px)
21

text alignment
center

border width (px)
0

border color
rgb(77, 87, 95)

border radius (px)
0

hidden
☐

depth
0

- ❖ Now, when the Predict button is clicked, code it to go to screen3 and the predicted result to be displayed in the label animalClass3_prediction.

```
onEvent(▼ "animalClass3_predict", ▼ "click", function() {  
  addPair(data, "Milk", getText(▼ "Milk_dropdown"));  
  addPair(data, "Toothed", getText(▼ "Toothed_dropdown"));  
  addPair(data, "Backbone", getText(▼ "Backbone_dropdown"));  
  addPair(data, "Domestic", getText(▼ "Domestic_dropdown"));  
  addPair(data, "Catsize", getText(▼ "Catsize_dropdown"));  
  addPair(data, "Legs", getText(▼ "Legs_dropdown"));  
  setText(▼ "animalClass3_prediction", '');  
  getPrediction("animalClass3", "XDgr1BWtasTg", data, function(value) {  
    setText(▼ "animalClass3_prediction", value);  
    setScreen(▼ "screen3");  
  });  
});
```