

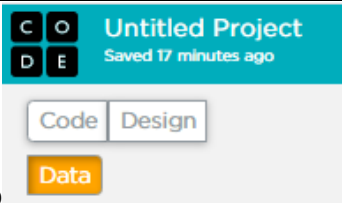
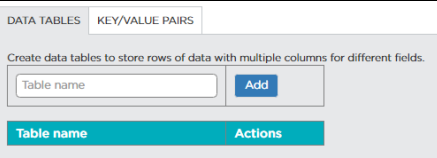
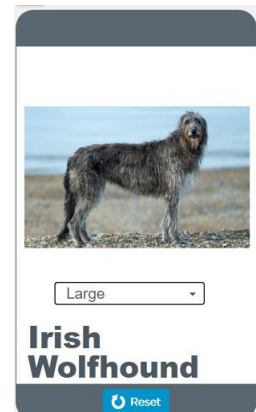


Créer une base de données

 avec Excel	créer un tableau, lui donner un nom l'exporter au format « .csv »
 avec Google Sheets	créer un tableau, lui donner un nom l'exporter au format « .csv »
 sur App Lab	 Donner un nom au tableau

Exemple n°1 : chiens

- Base de données des chiens,
- Filtrer en fonction d'une catégorie de taille : small, medium, large
- Afficher l'un des résultats de façon aléatoire :



```

1 // get data as lists from the dataset and store in variables
2 var dogNames = getColumn(▼ "Dogs", ▼ "Name");
3 var dogHeight = getColumn(▼ "Dogs", ▼ "Maximum Height");
4 var dogImages = getColumn(▼ "Dogs", ▼ "Image");
5
6 // set up blank lists to store the filtered lists
7 var filteredDogNames = [];
8 var filteredDogImages = [];
9 // filter the lists and sets up the screen
10 listSetup();
11 // when the dropdown is changed, filter the lists and set up the screen
12 onEvent(▼ "sizeDropdown", ▼ "change", function(){
13   listSetup();
14 });
  
```

```

15 // filters the lists, based on the value in the dropdown
16 // if the dog height is under a certain amount and the dropdown matches a value
17 // the corresponding name and image will be stored in the filtered lists.
18 function filter() {
19     // clears the filtered lists
20     filteredDogNames = [];
21     filteredDogImages = [];
22
23     // gets the size from the dropdown
24     var dogSize = getText(▼"sizeDropdown");
25
26     // traverses the dogHeight List
27     // if dogHeight and dogSize meet certain conditions
28     // the corresponding names and images are stored in the filtered lists
29     for (var i=0; i<dogHeight.length; i++) {
30         if (dogHeight[i] < 16 && dogSize == "Small") {
31             addItem(filteredDogNames, dogNames[i]);
32             addItem(filteredDogImages, dogImages[i]);
33         } else if (dogHeight[i] >= 16 && dogHeight[i] < 24 && dogSize == "Medium") {
34             addItem(filteredDogNames, dogNames[i]);
35             addItem(filteredDogImages, dogImages[i]);
36         } else if (dogHeight[i] >= 24 && dogSize == "Large") {
37             addItem(filteredDogNames, dogNames[i]);
38             addItem(filteredDogImages, dogImages[i]);
39         }
40     }
41
42     // prints the list of dog names that match the value in the dropdown
43     console.log(dogSize + " Dogs:\n" + filteredDogNames);
44

```

```

45 // sets up the screen elements
46 function updateScreen() {
47     var randomIndex = randomNumber(0, filteredDogNames.length-1);
48     setText(▼"nameOutput", filteredDogNames[randomIndex]);
49     setImageURL(▼"picture", filteredDogImages[randomIndex]);
50 }
51 // sets up the lists and the screen
52 function listSetup() {
53     filter();
54     updateScreen();
55 }

```

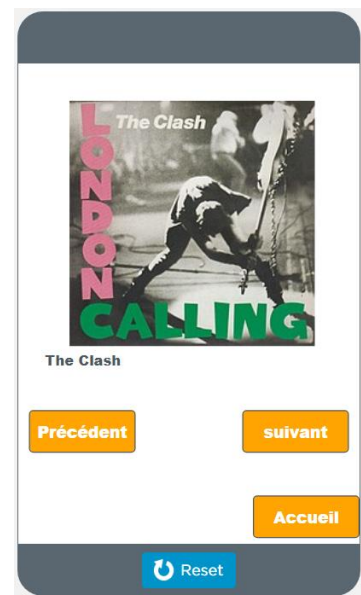
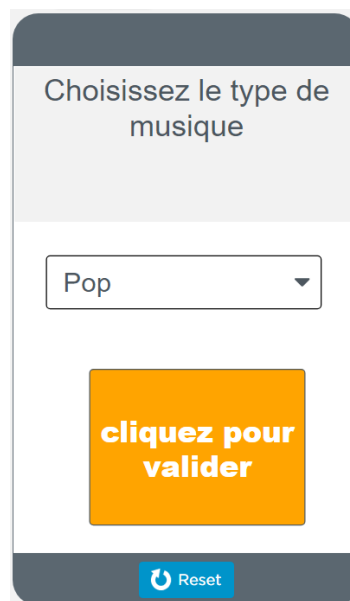
Base de données :

id	Name	Breed Group	Bred For	Minimum Life Span	Maximum Life Span	Minimum Height	Maximum Height	Minimum Weight	Maximum Weight	Temperament	Image
1	"Affenpinscher"	"Toy"	"Small rodent hunting, lapdog"	10	12	9	12	6	13	"Stubborn, Curious, Playful, Adventurous, Active, Fun-loving"	"https://cdn2.thedogapi.com/images/DL3JCV"
2	"Afghan Hound"	"Hound"	"Coarsing and hunting"	10	13	25	27	50	60	"Alert, Clean-cut, Dignified, Independent, Happy"	"https://cdn2.thedogapi.com/images/1ChrH8"
3	"Airedale Terrier"	"Terrier"	"Badger, otter hunting"	10	13	21	23	40	65	"Outgoing, Friendly, Alert, Confident, Intelligent, Courageous"	"https://cdn2.thedogapi.com/images/PGBJF"
4	"Akbash Dog"	"Working"	"Sheep guarding"	10	12	28	34	90	120	"Loyal, Independent, Intelligent, Brave"	"https://cdn2.thedogapi.com/images/5yfc19"
5	"Akita"	"Working"	"Hunting bears"	10	14	24	28	65	115	"Docile, Alert, Responsive, Dignified, Composed, Friendly, Responsive, Faithful, Courageous"	"https://cdn2.thedogapi.com/images/36TXW"
6	"Alapaha Blue Blood Bulldog"	"Mixed"	"Guarding"	12	13	18	24	55	90	"Loving, Protective, Trainable, Dutiful, Responsible"	"https://cdn2.thedogapi.com/images/33eJ-V3FX.jpg"
7	"Alaskan Husky"	"Mixed"	"Sled pulling"	10	13	23	26	38	50	"Friendly, Energetic, Loyal, Gentle, Confident"	"https://cdn2.thedogapi.com/images/-HgpNnGX.jpg"
8	"Alaskan Malamute"	"Working"	"hauling heavy freight, sled pulling"	12	15	23	25	65	100	"Friendly, Affectionate, Devoted, Loyal, Dignified, Playful"	"https://cdn2.thedogapi.com/images/GH5dr"
9	"American Eskimo Dog"	"Non Sporting"	"Circus performer"	12	15	15	19	20	40	"Friendly, Alert, Reserved, Intelligent, Protective"	"https://cdn2.thedogapi.com/images/EBBAs"
10	"American Foxhound"	"Hound"	"Fox hunting, scent hound"	8	15	21	28	65	75	"Kind, Sweet-Tempered, Loyal, Independent, Intelligent, Loving"	"https://cdn2.thedogapi.com/images/uL5orUK"
11	"American Pit Bull Terrier"	"Terrier"	"Fighting"	10	15	17	21	30	60	"Strong Willed, Stubborn, Friendly, Clean-cut, Affectionate, Loyal, Obedient, Intelligent, Courageous"	"https://cdn2.thedogapi.com/images/HkC3p"

105 entrées dans la base

Exemple n°2 : musique

- Base de données « Rolling Stone : 500 albums » (500 entrées)
- Choix d'un style
- Affichage successif de tous les éléments en cliquant sur les bouton « précédent » et « suivant »



```
1 var nameTable = getColumn(▼"RollingStone: 500 Albums", ▼"Artist");
2 var type = getColumn(▼"RollingStone: 500 Albums", ▼"Genre");
3 var imageTable = getColumn(▼"RollingStone: 500 Albums", ▼"Album Art");
4
5 var filteredName = [];
6 var filteredImage = [];
7
8 onEvent(▼"button1", ▼"click", function() {
9     setScreen(▼"screen2");
10    filter();
11    updateScreen();
12 });
13
14 function filter() {
15    var choix = getText(▼"dropdown1");
16    filteredName = [];
17    filteredImage = [];
18    for (var i = 0; i < type.length-1; i++) {
19        if (type[i] == choix) {
20            appendItem(filteredName, nameTable[i]);
21            appendItem(filteredImage, imageTable[i]);
22        }
23    }
24 }
25
26 function updateScreen() {
27    setImageURL(▼"image1", filteredImage[1]);
28    setText(▼"label1", filteredName[1]);
29 }
30
31 var indice = 1;
32
33 onEvent(▼"button3", ▼"click", function() {
34    indice = indice+1;
35    setImageURL(▼"image1", filteredImage[indice]);
36    setText(▼"label1", filteredName[indice]);
37 });
```

```

39  onEvent (▼ "button4", ▼ "click", function () {
40      indice = indice - 1;
41      setImageURL (▼ "image1", filteredImage[indice]);
42      setText (▼ "label1", filteredName[indice]);
43  });
44
45  onEvent (▼ "button2", ▼ "click", function () {
46      setScreen (▼ "screen1");
47  });

```

Base de données

id	Album Rank	Year	Album	Artist	Genre	Subgenre	Album Art
#	<input type="text" value="enter text"/>	<input type="text" value="enter"/>	<input type="text" value="enter text"/>	<input type="text" value="enter text"/>	<input type="text" value="enter text"/>	<input type="text" value="enter text"/>	<input type="text" value="enter text"/>
1	1	1967	"Sgt. Pepper's Lonely Hearts Club Band"	"The Beatles"	"Rock"	"Rock & Roll, Psychedelic Rock"	"https://www.udiscovermusic.com/wp-content/uploads/2018/01/SgtPepper-1.jpg"
2	2	1966	"Pet Sounds"	"The Beach Boys"	"Rock"	"Pop Rock, Psychedelic Rock"	"https://upload.wikimedia.org/wikipedia/en/thumb/PetSoundsCover.jpg"
3	3	1966	"Revolver"	"The Beatles"	"Rock"	"Psychedelic Rock, Pop Rock"	"https://upload.wikimedia.org/wikipedia/en/1/16/Re"
4	4	1965	"Highway 61 Revisited"	"Bob Dylan"	"Rock"	"Folk Rock, Blues Rock"	"https://img.discogs.com/rC7Ou5qlwnlYxEugARB9_in/600x595/filters:strip_icc():format(jpeg):mode_rgb/images/R-546597-1379537138-7990.jpeg.jpg"
5	5	1965	"Rubber Soul"	"The Beatles"	"Rock, Pop"	"Pop Rock"	"https://upload.wikimedia.org/wikipedia/en/thumb/Rubber_Soul.jpg"
6	6	1971	"What's Going On"	"Marvin Gaye"	"Funk / Soul"	"Soul"	"https://images.theconversation.com/files/212618/original/20180329-189807-fofptc.jpg?ixlib=rb-1.1.0&q=45&auto=format&w=926&fit=clip"
7	7	1972	"Exile on Main St."	"The Rolling Stones"	"Rock"	"Blues Rock, Rock & Roll, Classic Rock"	"https://upload.wikimedia.org/wikipedia/en/thumb/ExileMainSt.jpg"
8	8	1979	"London Calling"	"The Clash"	"Rock"	"Punk, New Wave"	"https://upload.wikimedia.org/wikipedia/en/thumb/TheClashLondonCallingalbumcover.jpg"
9	9	1966	"Blonde on Blonde"	"Bob Dylan"	"Rock, Blues"	"Folk Rock, Rhythm & Blues"	"https://upload.wikimedia.org/wikipedia/en/3/38/Blonde_on_Blonde.jpg"

500 lignes dans la base de données