VIDEO CLIP____

SELECTION USING DROPDOWN MENU



have all the options mentioned in the dropdown menu and corresponding video link for those options

Create a csv file which will

Dropdown menu design with 5 questions (Who, What, Where, When and Why)

values selected in the dropdown menu are in the csv file or not





menu to choose a video clip



the csv file

corresponds to input given by the dropdown menu. And select the video given in the column named Path for that row

Select the row which

STEP (

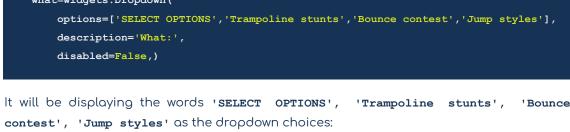


We will create the Dropdown using the ipywidgets library in python.

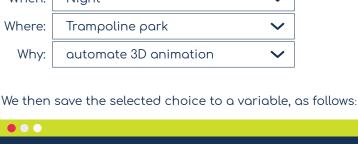
pywidgets, also known as jupyter-widgets or simply widgets, are interactive HTML widgets for Jupyter notebooks and the IPython kernel.

Notebooks come alive when interactive widgets are used. Users gain control of their data

Dropdown



What: Trampoline stunts When: Night



Here we have used 5 questions, What, Who, Where, When and Why, based on these we will

select a video file from the device. For example **WHO** will be FuryPeg **What** can be the props used by them like a Trampoline Stunt or Bounce Competition

w1 = widgets.Dropdown(options=What.options,description='What:')

Where can be a place like a Trampoline Park or Bounce Place When can be either during the Day or during Night or Mid-Night **Why,** right now the only option provided is to create a 3d animation.



Who What

FuryPeg

4

The csv file is as follows:

Jump styles

def on change(change):

We call this function as follows:

Night FuryPeg Trampoline stunts Trampoline park automate 3D animation Frontdoubleflip.mp4 3 FuryPeg Bounce contest Day Trampoline park automate 3D animation Highbounce.mp4

Bounce place

Where

Why

automate 3D animation

	0	i di yi eg	irampourie starits	Day	Trampotine park	datomate ob animation	backjamp.mp+
	6	FuryPeg	Bounce contest	Mid-Day	Trampoline park	automate 3D animation	Jumpingjack.mp4
	7	FuryPeg	Jump styles	Day	Bounce place	automate 3D animation	Eyeroll.mp4
	8	FuryPeg	Bounce contest	Night	Trampoline park	automate 3D animation	Frontflip.mp4
As you can see the combination of each option from the drop down corresponds to a row in the csv file which is linked to a particular video mentioned in the path column. Hence using this method we can get the desired video by just selecting the options from a drop down menu.							

Check if the dropdown inputs correspond to a row in the csv file For this we define an on change function which stores the selected dropdown menu option



global a,b,c,d,e a = change['new']

if change['new'] == 'Trampoline stunts': b = change['new']

```
w1.observe(on_change)
Create 5 different variables to store the 5 selections from the dropdown.
Find the row id in the csv file that corresponds to the selected 5
options from the dropdown
```



o = open(filename, 'r') myData = csv.reader(o) index = 0

for index, row in enumerate(myData):

def find row(filename, col number1, value1, col number2, value2,

col_number3,value3):

var = str(value1)

coln = str(col_number1)

coln1 = str(col_number2)

coln2 = str(col_number3)

var1 = str(value2)

var2 = str(value3)

if row[col_number1] == var and row[col_number2] == var1 and row[col_number3] == var2:

return index It takes 3 inputs.first is the csv file name, next is any column number 1 and third is a variable based on which you want to do the search, similarly column number 2 and value that you want to search in it and column number 3 and its corresponding search value. It returns the row number if it finds the variable that you have provided as input in any of the rows in the csv file. Note that since we have 5 input questions from the dropdown we can have 5 factorial number of Combinations, But in our example we have only 1 possibility for the question who that is FuryPeg and one possibility for why that's to create animation. We can later add on to it as and when required.

We have used the logical and operator to find the combination which then can be compared

clip1 = (df['Path'][x-1])

clip1 = (df['Path'][x-1])

STEP 6



We can use the Video command in python

from IPython.core.display import Video Video(clip1)

that particular row in order to get the name of the video which we can then play.

For example if our clip1 had got the path as Frontdoubleflip.mp4

where we try to label our data for training the AI to

https://github.com/PegHeads-Inc/PegHeads-Tutorial-2

Check if the

selected from

Design the dropdown menu

and can visualize changes in the data. what=widgets.Dropdown(

Who:

FuryPeg

display(w1)

Create a csv file

When

Night

• • •

It will play that video.

STAY TUNED FOR OUR NEXT TUTORIAL select the video for concatenation

y & ◎ () □ f in

We have used a csv file to store all the possible options for the given dropdown question.

and checks if the selected value is in the csv file or not using an if condition.

Path

Colorchanging.mp4

We have defined function called find row to do this for us.

if c == 'Trampoline stunts' and d=='Day 'and e=='Trampoline park':

with the csv file to find the row which as this combination. Select the video from the csv file

Once we find the row number in the csv file then we just have to access the PATH column of

elif c == ' Bounce contest' and d=='Night' and e=='Trampoline park':

x = find_row('/content/properties.csv', 1, c, 2, d, 3, e)

x = find_row('/content/properties.csv', 1, c, 2, d, 3, e)

This will play the video.

Try our code in jupyter notebook. The git link is provided below.