*# totarial: GUI + API + OOP***import** io  
  
**import** requests *# for fetching data***from** tkinter **import** \* *#for GUI***from** urllib.request **import** urlopen *# for image***from** PIL **import** ImageTk, Image  
  
**class** Newsapp:  
 **def** \_\_init\_\_(self):  
 *# fetch data* self.data = requests.get(**'https://newsapi.org/v2/top-headlines?sources=bbc-news&apiKey=20dc8ce0508b4b2ba1e25831297ee1d1'**).json() *# json means o convert this data into json format  
 # initial GUI load: tkinter is use for GUI* self.load\_gui()  
 *#load first item* self.load\_news\_item(0)  
  
  
 **def** load\_gui(self):  
 self.root = Tk()  
 self.root.geometry(**'350x600'**)  
 self.root.configure(background=**'black'**)  
 *# load the first news item* **def** clear(self):  
 **for** i **in** self.root.pack\_slaves():  
 i.destroy()  
  
 **def** load\_news\_item(self,index):  
  
 *#to clear the screen for the new news item* self.clear()  
  
 *#for image* img\_url = self.data[**'articles'**][index][**'urlToImage'**]  
 raw\_data = urlopen(img\_url).read()  
 im = Image.open(io.BytesIO(raw\_data)).resize((350,250))  
 photo = ImageTk.PhotoImage(im)  
 label = Label(self.root,image=photo)  
 *#for heading* heading = Label(self.root, text=self.data[**'articles'**][index][**'title'**],bg=**'black'**,fg=**'white'**,wraplength=350,justify=**'center'**)  
 heading.pack(padx=(10,20))  
 heading.config(font=(**'verdana'**,15))  
  
 *#for its details* details = Label(self.root, text=self.data[**'articles'**][index][**'description'**],bg=**'black'**,fg=**'white'**,wraplength=350,justify=**'center'**)  
 details.pack(pady=(2,20))  
 details.config(font=(**'verdana'**,12))  
  
 *#for buttons* frame = Frame(self.root,bg=**'black'**)  
 frame.pack(expand=**True**,fill=BOTH)  
  
 prev = Button(frame, text=**'Prev'**, width=16,height=3)  
 prev.pack(side=LEFT)  
  
 read = Button(frame, text=**'Read More'**, width=16, height=3)  
 read.pack(side=LEFT)  
  
 next = Button(frame, text=**'Next'**, width=16, height=3)  
 next.pack(side=LEFT)  
  
  
  
  
 *#clear the screen for the new news item* self.root.mainloop()  
  
  
obj = Newsapp()