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Create Executable from Python Script using Pyinstaller

[Python](#) / [April 9, 2020](#)

Looking to create an executable from Python script using pyinstaller?

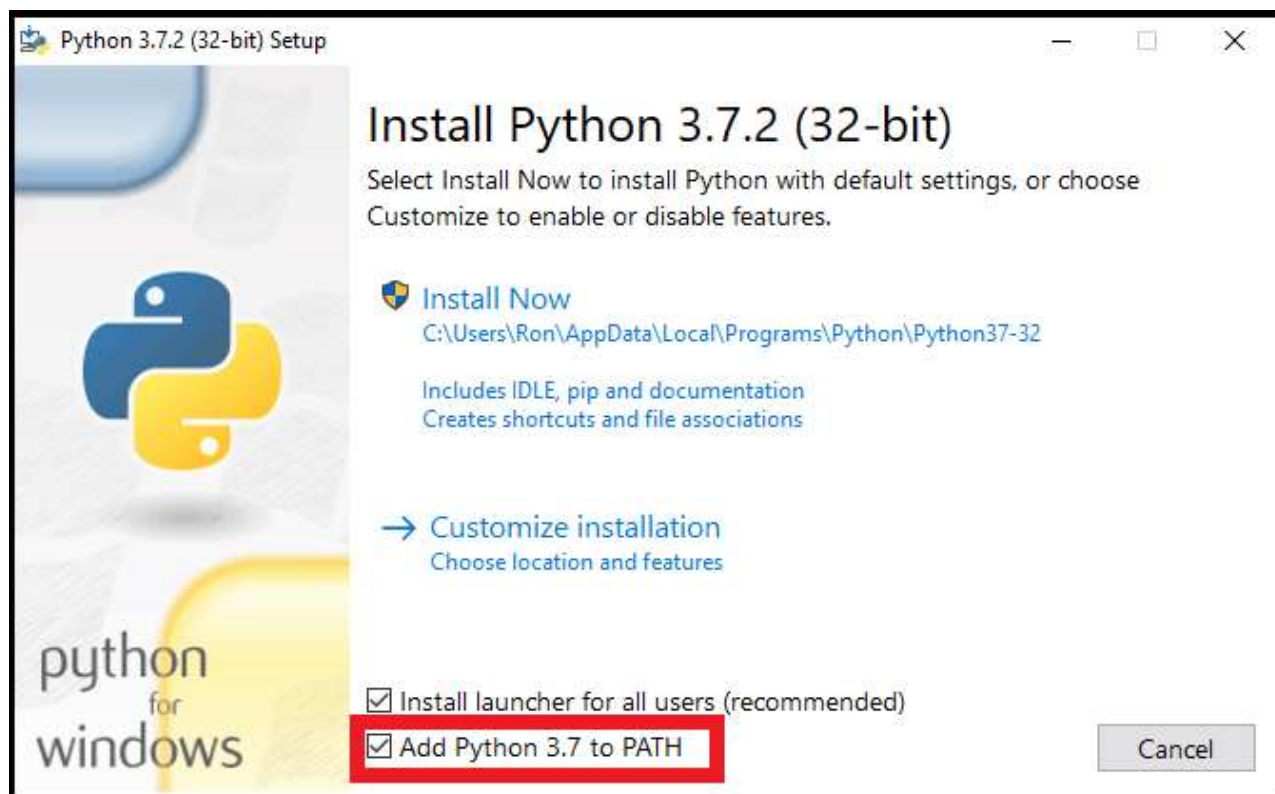
If so, I'll show you the full steps to accomplish this goal in *Windows*.

Steps to Create an Executable from Python Script using Pyinstaller

Step 1: Add Python to Windows Path

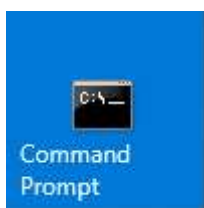
To start, you may want to [add Python to Windows path](#).

An easy way to add Python to the path is by [downloading](#) a recent version of Python, and then checking the box to 'Add Python to PATH' during the installation:



Step 2: Open the Windows Command Prompt

Next, open the Windows Command Prompt:



Step 3: Install the Pyinstaller Package

In the Windows Command Prompt, type the following command to [install](#) the *pyinstaller* package (and then press Enter):

```
pip install pyinstaller
```

This is how the command would look like:

A screenshot of a Windows Command Prompt window. The title bar says "C:\> Command Prompt". The window content shows the Microsoft Windows version (10.0.17763.316) and copyright information (© 2018 Microsoft Corporation). The command prompt shows the path "C:\Users\Ron>" followed by the command "pip install pyinstaller", which is highlighted with a red rectangular box.

Step 4: Save your Python Script

Now you'll need to save your Python script at your desired location.

For illustration purposes, I created a simple Python script that will display 'Hello World!' when clicking the button:

```
import tkinter as tk

root= tk.Tk()

canvas1 = tk.Canvas(root, width = 300, height = 300)
canvas1.pack()

def hello ():
    label1 = tk.Label(root, text= 'Hello World!', fg='green', font=
    canvas1.create_window(150, 200, window=label1)

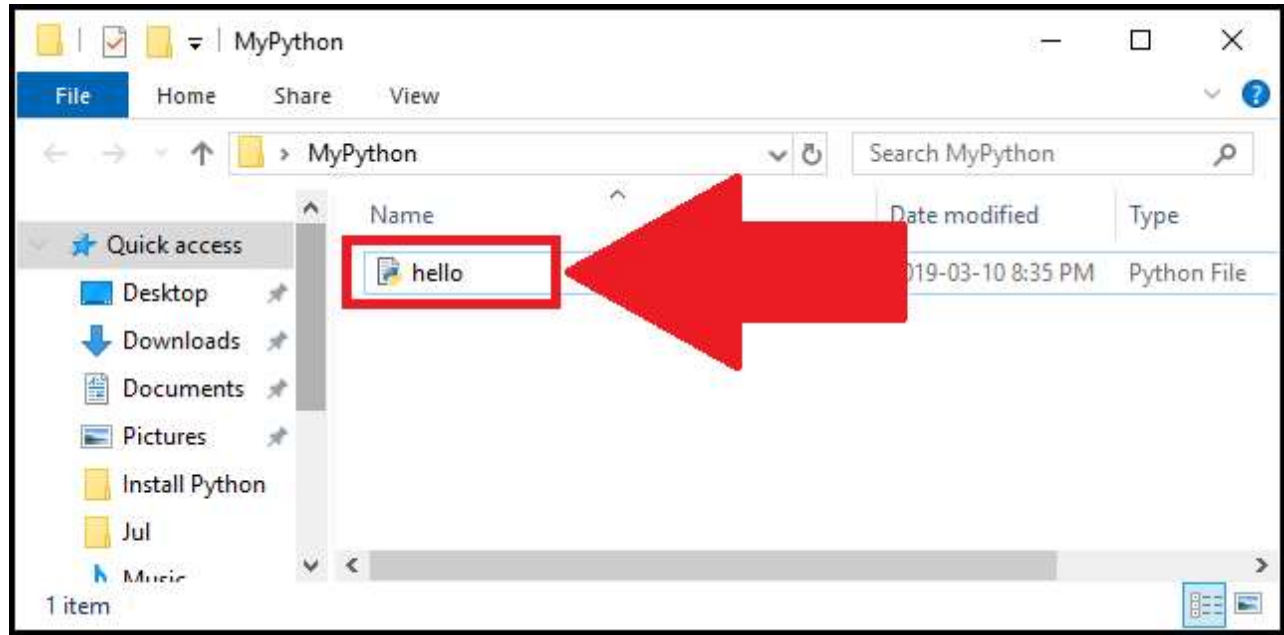
button1 = tk.Button(text='Click Me',command=hello, bg='brown',fg='v
canvas1.create_window(150, 150, window=button1)

root.mainloop()
```

I then saved the Python script in the following folder:

C:\Users\Ron\Desktop\MyPython

Where I named the Python script as 'hello'



Step 5: Create the Executable using Pyinstaller

Now you'll be able to create the executable from the Python script using pyinstaller.

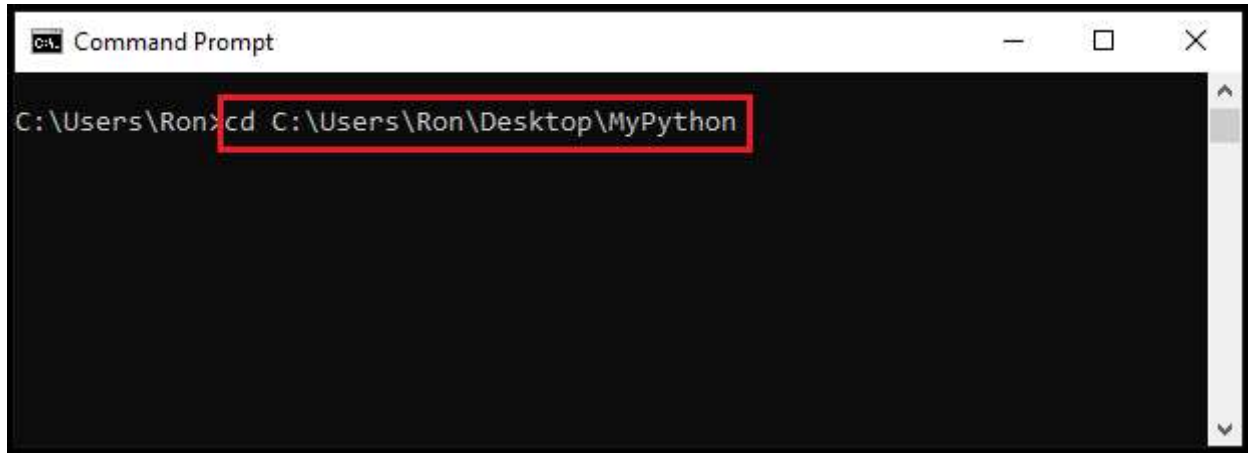
Simply go to the Command Prompt, and then type:

cd followed by the location where your Python script is stored

In my case, I typed the following in the command prompt:

```
cd C:\Users\Ron\Desktop\MyPython
```

This is how my command looked like (don't forget to press Enter after you typed the location where the Python script is stored on *your* computer):



```
C:\Users\Ron>cd C:\Users\Ron\Desktop\MyPython
```

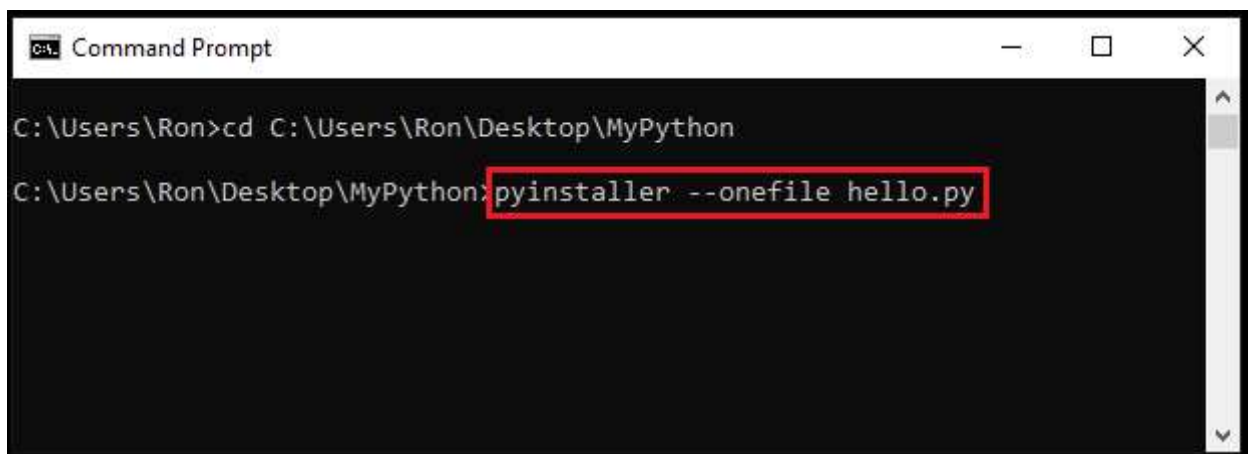
Next, use the following template to create the executable:

```
pyinstaller --onefile pythonScriptName.py
```

Since in our example, the *pythonScriptName* is '**hello**', then the command to create the executable is:

```
pyinstaller --onefile hello.py
```

In the command prompt:



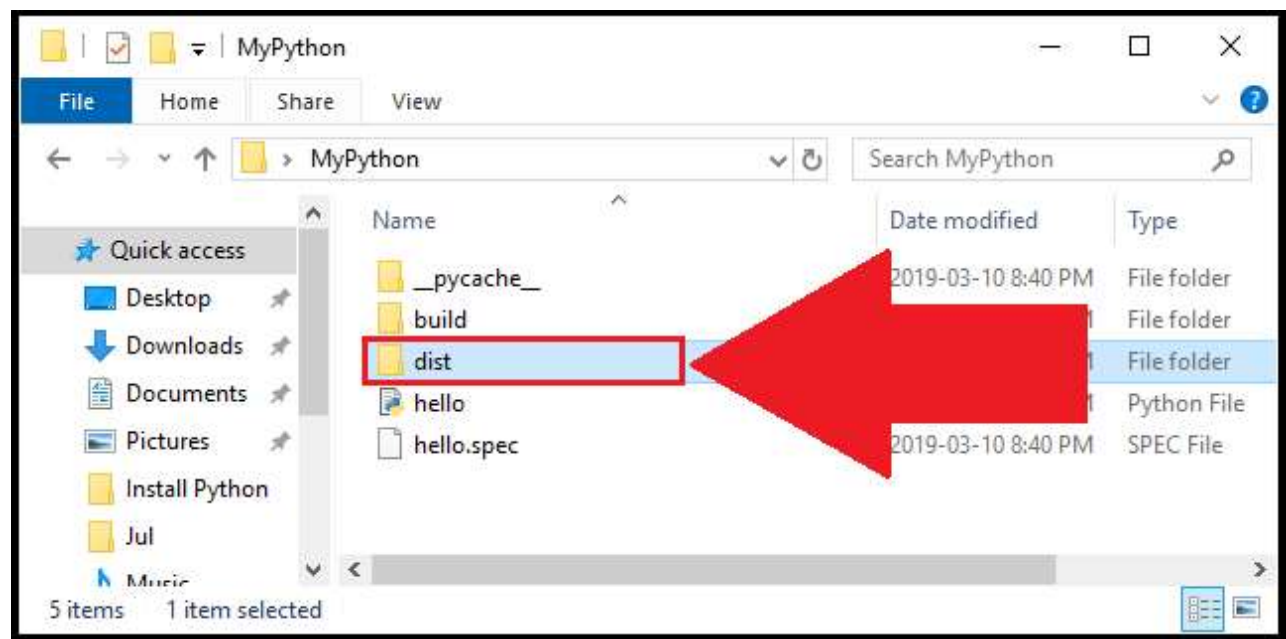
```
C:\Users\Ron>cd C:\Users\Ron\Desktop\MyPython  
C:\Users\Ron\Desktop\MyPython>pyinstaller --onefile hello.py
```

Once you're done, press Enter for the last time.

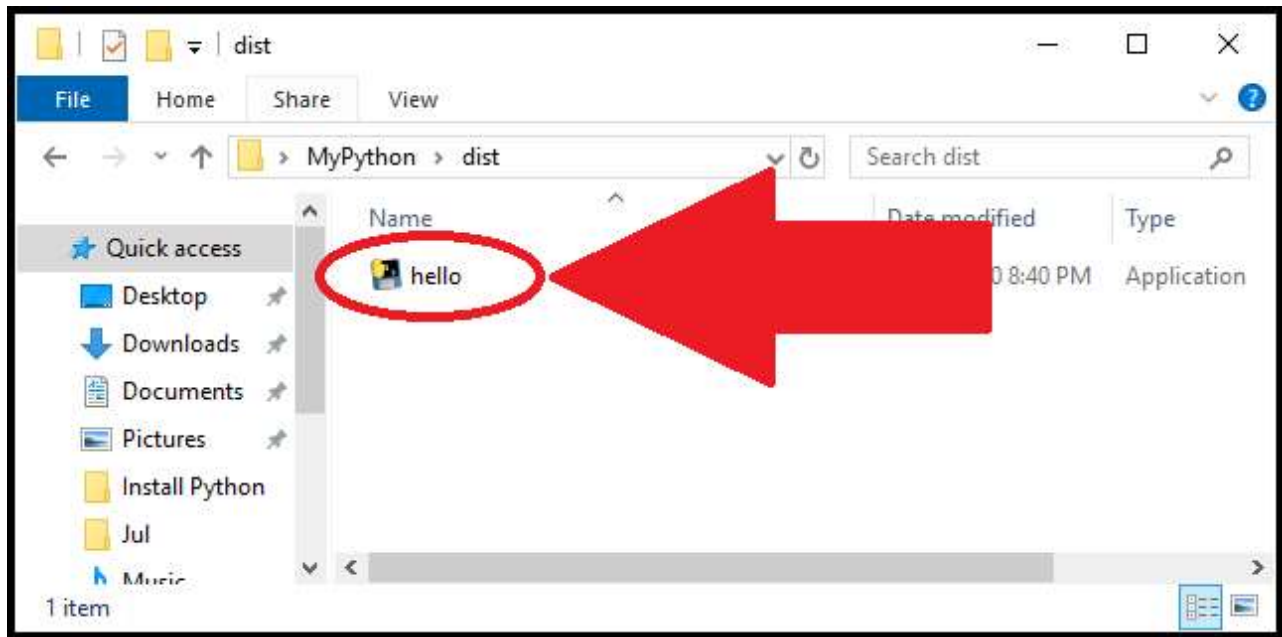
Step 6: Run the Executable

Your executable should now get created at the location that you specified.

In my case, I went back to the location where I originally stored the 'hello' script (C:\Users\Ron\Desktop\MyPython). Few additional files got created at that location. To find the executable file, open the **dist** folder:

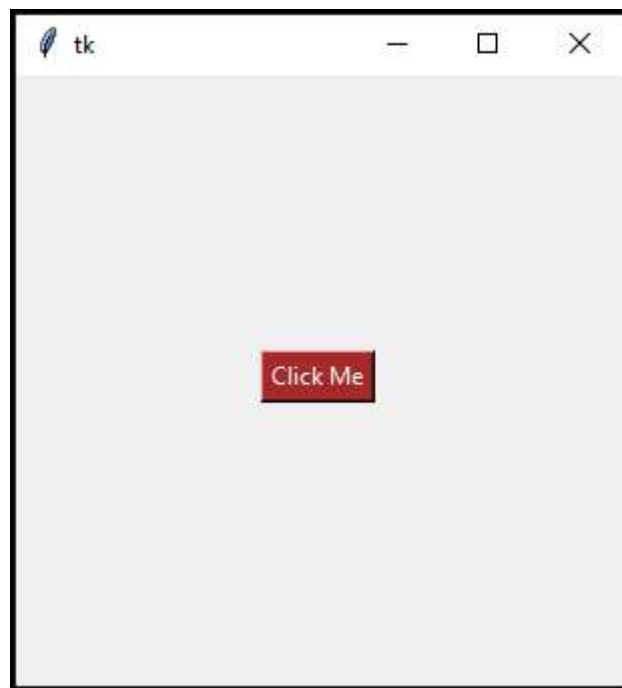


Now you'll see the executable file:

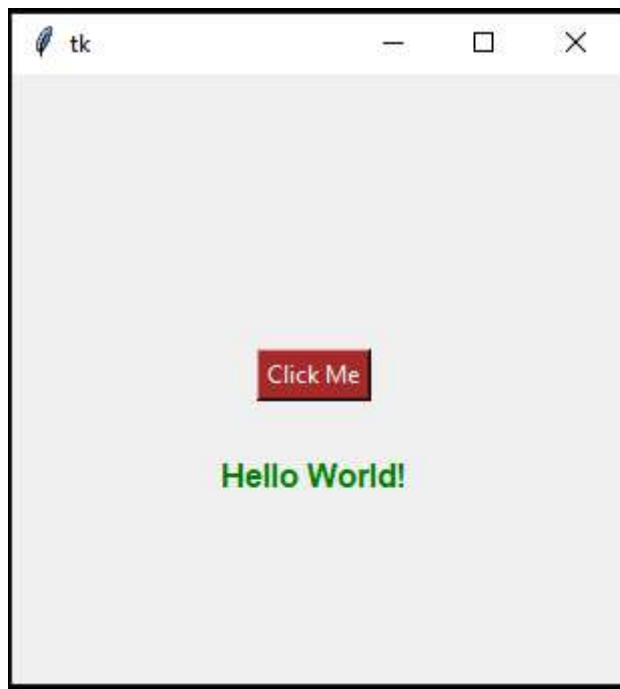


Once you click on the file, you should be able to launch your program (if you get an error message, you may need to install [Visual C++ Redistributable](#)).

For our example, once you click on the 'hello' executable, you'll see the following display with a single button:



If you click on the button, you'll see the expression of 'Hello World!'



You can read more about pyinstaller by visiting the [pyinstaller manual](#).

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