**Steps to Convert a .py File to .exe**

**1. Install PyInstaller**

Ensure you have Python installed. Then, install PyInstaller using pip:

bash

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**pip install pyinstaller**

**2. Navigate to Your Script Directory**

Open your terminal or command prompt, and navigate to the folder where your .py script is located:

bash

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cd /path/to/your/script

**3. Run PyInstaller**

Run PyInstaller with your .py script:

bash

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pyinstaller --onefile your\_script.py

* --onefile: Packages everything into a single .exe file.
* Replace your\_script.py with the name of your Python script.

**4. Locate the .exe File**

After running the command, PyInstaller creates the following directories:

* A dist folder: This contains the .exe file.
* A build folder: Temporary files used during the build process.
* A .spec file: A configuration file for PyInstaller.

Your .exe file will be located in the dist folder.

**Customizing the Build**

You can modify the PyInstaller command to customize the build:

* **Add an Icon**:

bash

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pyinstaller --onefile --icon=icon.ico your\_script.py

Replace icon.ico with the path to your icon file.

* **Hide the Console Window (For GUI Apps)**:

bash

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pyinstaller --onefile --noconsole your\_script.py

**Additional Notes**

1. **Cross-Platform Builds**: PyInstaller must run on the operating system you’re targeting. For example:
   * To create a Windows .exe, run PyInstaller on Windows.
   * For cross-platform builds, use tools like Docker or a virtual machine.
2. **Python Version**: Use the same Python version for packaging as your script's dependencies.
3. **Troubleshooting Missing Modules**: If you encounter missing module errors, ensure all required modules are installed:

bash

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pip install -r requirements.txt

**Example**

To convert a script named app.py with an icon:

bash

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pyinstaller --onefile --icon=myicon.ico app.py

After running this, check the dist folder for app.exe.

Let me know if you need further help!

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