how to make new python package in vs code



Creating a new Python package in Visual Studio Code (VS Code) involves several steps. Here's a structured guide to help you through the process:

Step-by-Step Guide to Create a Python Package

1. Set Up Your Project Directory

- · Open VS Code.
- Create a new folder for your package. You can do this directly in VS
 Code or through your file explorer.

```
bash C Copy

mkdir my_python_package
cd my_python_package
```

2. Create the Package Structure

Inside your project directory, create the following structure:



- my_package/: This is the directory for your package.
- __init__.py : This file makes Python treat the directories as containing packages. It can be empty or contain initialization code.
- module.py: This file can contain your functions or classes.
- setup.py: This script is for packaging your project.
- README.md: A markdown file to describe your package.

3. Write Your Code

• In module.py , add some basic functionality:

```
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def hello():
    return "Hello, World!"
```

• In __init__.py , you can import your module:

```
python ☐ Copy

from .module import hello
```

4. Create the setup.py File

This file is crucial for packaging your Python project. Here's a simple example:

```
python

from setuptools import setup, find_packages

setup(
    name='my_package',
    version='0.1',
    packages=find_packages(),
    description='A simple example package',
    author='Your Name',
    author_email='your.email@example.com',
    url='https://github.com/yourusername/my_python_package',
)
```

5. Install Your Package Locally

Open a terminal in VS Code and run:

```
bash ☐ Copy
pip install -e .
```

This command installs your package in "editable" mode, allowing you to modify the code without reinstalling.

6. Test Your Package

You can create a separate Python file (e.g., test.py) in the root directory to test your package:

```
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from my_package import hello

print(hello())
```

Run the test file:



7. Version Control (Optional)

If you're using Git, initialize a repository:

```
bash ☐ Copy

git init
git add .
git commit -m "Initial commit"
```

Conclusion

You've now created a simple Python package in VS Code! You can expand on this by adding more modules, writing tests, and eventually publishing

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