



# How to Fix: ImportError: attempted relative import with no known parent package

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ImportError: attempted relative import with no known parent package error occurs when attempting to import a module or package using a relative import syntax, but Python is unable to identify the parent package. In this article, we will see how to solve Importerror: Attempted Relative Import With No Known Parent Package (Python).

## What is ImportError: Attempted Relative Import With No Known Parent Package?

The "ImportError: attempted relative import with no known parent package" error typically arises in Python projects with multiple modules or packages. [Python](#) uses the concept of packages and modules to organize code into manageable units. When attempting to perform a relative import, Python relies on the presence of a parent package to resolve the import statement. However, if Python cannot identify the parent package, it raises the "[ImportError](#)."

### Error Syntax:

```
ImportError: attempted relative import with no known parent package
```

Below are some of the reasons why ImportError: attempted relative [import](#) with no known parent package occurs in Python:

- Incorrect package structure

- Missing init.py file

## Incorrect Package Structure

One common reason for this error is an incorrect or inconsistent package structure. Python expects a specific structure to recognize packages and modules correctly. If the package structure deviates from this standard, Python may fail to identify the parent package.

### my\_package/module.py

Python

```
1 def hello():
2     print("Hello from module.py")
```

### my\_package/main.py

Python

```
1 from .module import hello
2
3 def main():
4     hello()
5
6 if __name__ == "__main__":
7     main()
```

## Output

```
File "C:\Users\HP\OneDrive\Desktop\Data\New folder\my_package\main.py", line 2, in <module>
    from .module import hello # Attempted relative import
    ^^^^^^^^^^^^^^^^^^^^^^^^^
ImportError: attempted relative import with no known parent package
```

## Missing utils.py file

The utils.py file is missing in one of the directories, which is crucial for Python to recognize it as a package. Without the utils.py file, Python won't recognize the parent package, leading to the ImportError.

#### folder/main.py

Python

```
1  from .utils import some_function
2
3  def main():
4      some_function()
```

#### Output

```
Traceback (most recent call last):
  File "c:\Users\HP\OneDrive\Desktop\Data\New folder\my_package\main.py", line 10, in <module>
    from .utils import some_function
ImportError: attempted relative import with no known parent package
PS C:\Users\HP\OneDrive\Desktop\Data\New folder>
```

## Solution: ImportError: Attempted Relative Import With No Known Parent Package

Below are the solution for ImportError: Attempted Relative Import With No Known Parent Package in Python:

- Correct Package Structure
- Create utils.py File

### Correct Package Structure

Correct the code of main.py file as shown below then run the code.

#### my\_package/main.py

Python

```
1  from module import hello
2
```

```
3  def main():
4      hello()
5
6  if __name__ == "__main__":
7      main()
```

## Output

Hello from module.py

## Create utils.py ( Missing) File

Create utils.py file and write below code and also correct the code of main.py file, the error will resolve.

### folder/utils.py

#### Python

```
1  #utils.py
2
3  def some_function():
4      print("This is some_function() from utils.py")
```

### folder/main.py

#### Python

```
1  from utils import some_function
2
3  def main():
4      some_function()
5
6  if __name__ == "__main__":
7      main()
```

## Output

This is `some_function()` from `utils.py`

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