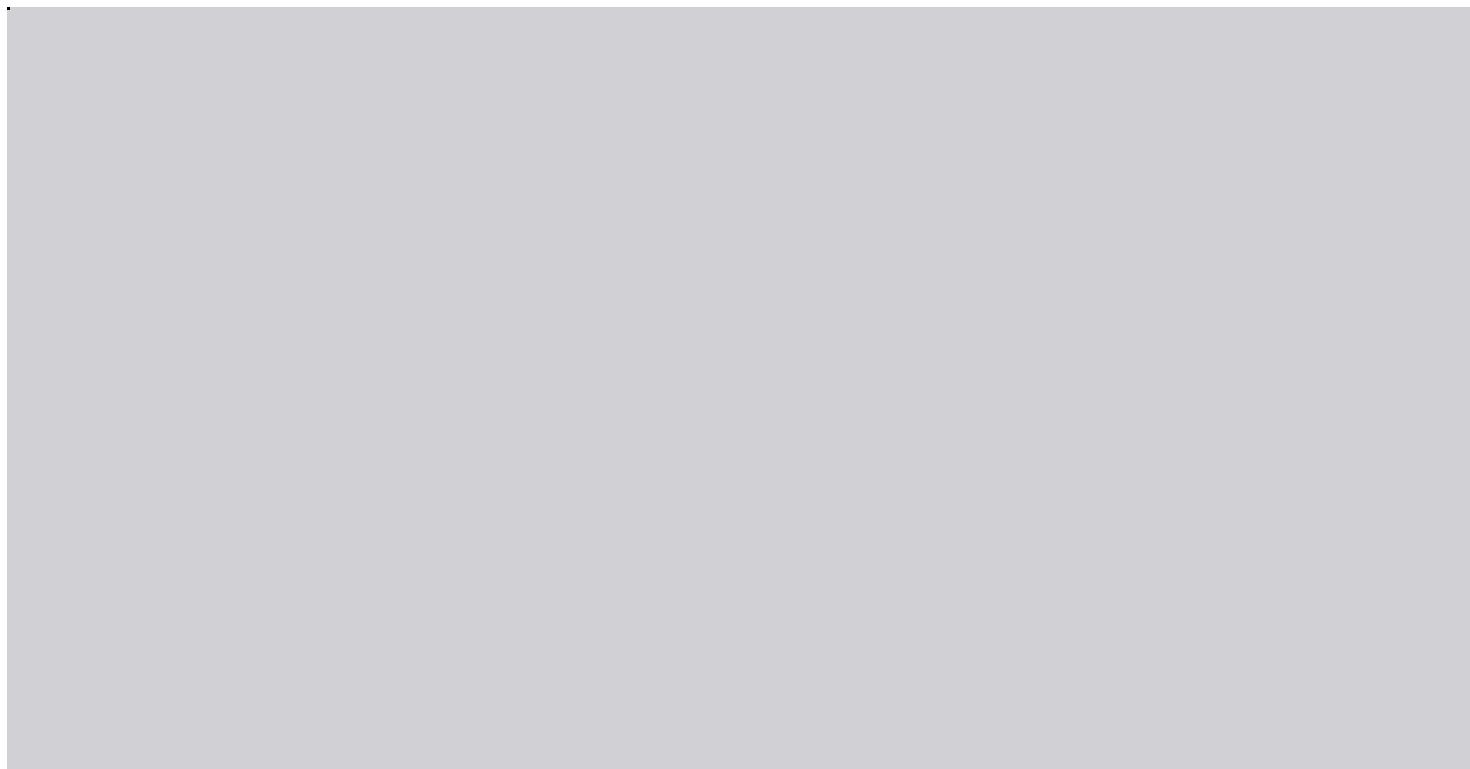


MARCH 24, 2022 / #PYTHON

Int Object is Not Iterable – Python Error [Solved]



Kolade Chris



“`TypeError: 'int' object is not iterable`”, it means you are trying to loop through an integer or other data type that loops cannot work on.

In Python, iterable data are lists, tuples, sets, dictionaries, and so on.

In addition, this error being a “`TypeError`” means you’re trying to perform an operation on an inappropriate data type. For example, adding a string with an integer.

Today is the last day you should get this error while running your Python code. Because in this article, I will not just show you how to fix it, I will also show you how to check for the `__iter__` magic methods so you can see if an object is iterable.

How to Fix Int Object is Not Iterable

If you are trying to loop through an integer, you will get this error:

```
count = 14

for i in count:
    print(i)
# Output: TypeError: 'int' object is not iterable
```

One way to fix it is to pass the variable into the `range()` function.

In Python, the `range` function checks the variable passed into it and returns a series of numbers starting from 0 and stopping right before the specified number.

The loop will now run:

Learn to code – free 3,000-hour curriculum

```
for i in range(count):
    print(i)

# Output: 0
# 1
# 2
# 3
# 4
# 5
# 6
# 7
# 8
# 9
# 10
# 11
# 12
# 13
```

Another example that uses this solution is in the snippet below:

```
age = int(input("Enter your age: "))

for num in range(age):
    print(num)

# Output:
# Enter your age: 6
# 0
# 1
# 2
# 3
# 4
# 5
```

How to Check if Data or an Object is Iterable

To check if some particular data are iterable, you can use the `dir()` method. If you can see the magic method `__iter__`, then the data are

```
perfectNum = 7

print(dir(perfectNum))

# Output:[ '__abs__', '__add__', '__and__', '__bool__', '__ceil__', '__class__'
# '__pow__', '__radd__', '__rand__', '__rdivmod__', '__reduce__', '__reduce_ex__'
```

The `__iter__` magic method is not found in the output, so the variable `perfectNum` is not iterable.

```
jerseyNums = [43, 10, 7, 6, 8]

print(dir(jerseyNums))

# Output: [ '__add__', '__class__', '__contains__', '__delattr__', '__delitem__'
```

The magic method `__iter__` was found, so the list `jerseyNums` is iterable.

Conclusion

In this article, you learned about the “Int Object is Not Iterable” error and how to fix it.

You were also able to see that it is possible to check whether an object or some data are iterable or not.

If you check for the `__iter__` magic method in some data and you don’t find it, it’s better to not attempt to loop through the data at all since they’re not iterable.

Thank you for reading.

Learn to code – free 3,000-hour curriculum



I'm a software developer and tech writer focusing on frontend technologies

If you read this far, thank the author to show them you care.

[Say Thanks](#)

Learn to code for free. freeCodeCamp's open source curriculum has helped more than 40,000 people get jobs as developers. [Get started](#)

freeCodeCamp is a donor-supported tax-exempt 501(c)(3) charity organization (United States Federal Tax Identification Number: 82-0779546)

Our mission: to help people learn to code for free. We accomplish this by creating thousands of videos, articles, and interactive coding lessons - all freely available to the public.

Donations to freeCodeCamp go toward our education initiatives, and help pay for servers, services, and staff.

You can [make a tax-deductible donation here](#).

Trending Books and Handbooks

REST APIs	Clean Code	TypeScript
JavaScript	AI Chatbots	Command Line
GraphQL APIs	CSS Transforms	Access Control
REST API Design	PHP	Java
Linux	React	CI/CD
Docker	Golang	Python
Node.js	Todo APIs	JavaScript Classes
Front-End Libraries	Express and Node.js	Python Code Examples
Clustering in Python	Software Architecture	Programming Fundamentals

Learn to code – [free 3,000-hour curriculum](#)

Mobile App



Our Charity

Publication powered by Hashnode [About](#) [Alumni Network](#) [Open Source](#) [Shop](#) [Support](#) [Sponsors](#)

[Academic Honesty](#) [Code of Conduct](#) [Privacy Policy](#) [Terms of Service](#) [Copyright Policy](#)