

# How can I fix the error “numpy.float64’ object does not support item assignment”?

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## RECOMMENDED CITATION

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The error "numpy.float64' object does not support item assignment" occurs when attempting to assign a value to an individual element in a NumPy array that has been defined as a float64 data type. To fix this error, you can either change the data type of the array to one that supports item assignment, such as a list, or use the appropriate NumPy function to modify the array's elements without assigning them directly.

## **Fix: 'numpy.float64' object does not support item assignment**

**One common error you may encounter when using Python is:**

**TypeError: 'numpy.float64' object does not support item assignment**

**This error usually occurs when you attempt to use brackets to assign a new value to a NumPy variable that has a type of float64.**

**The following example shows how to resolve this error in practice.**

### **How to Reproduce the Error**

**Suppose we create some NumPy variable that has a value of 15.22 and we attempt to use brackets to assign it a new value of 13.7:**

```
import numpy as np
```

```
#define some float value
```

```
one_float = np.float64(15.22)
```

```
#attempt to modify float value to be 13.7
```

```
one_float = 13.7
```

**TypeError: 'numpy.float64' object does not support item assignment**

**We receive the error that 'numpy.float64' object does not support item assignment.**

**We received this error because one\_float is a scalar but we attempted to treat it like an array where we could use brackets to change the value in index position 0.**

**Since one\_float is not an array, we can't use brackets when attempting to change its value.**

**How to Fix the Error**

**The way to resolve this error is to simply not use brackets when assigning a new value to the float:**

```
#modify float value to be 13.7
```

```
one_float = 13.7
```

```
#view float
```

```
print(one_float)
```

```
13.7
```

**We're able to successfully change the value from 15.22 to 13.7 because we didn't use brackets.**

**Note that it's fine to use brackets to change values in specific index positions as long as you're working with an array.**

**For example, the following code shows how to change the first element in a NumPy array from 15.22 to 13.7 by using bracket notation:**

```
import numpy as np
```

```
#define a NumPy array of floats
```

```
many_floats = np.float64()
```

```
#modify float value in first index position of array to be  
13.7
```

```
many_floats = 13.7
```

```
#view updated array
```

```
print(many_floats)
```

The following tutorials explain how to fix other common errors in Python:

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