CISS450: Artificial Intelligence Lecture 4: None

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Agenda

The special None object

None

- There is a type called NoneType
- There is only one object called None of type NoneType
- None is used for representing non-existing value
- However NoneType is not available in Python3 other than by using

type(None)

Function

 On return from a function without explicitly returning a value, None is in fact returned:

```
def f():
   pass
```

```
x = f()
print(x)
```

The output is:

None

Function

You can use None to indicate an error:

```
def divide(a, b):
    if b != 0:
        return a / b
    else:
        return None
but it's probably best to use exceptions (see much later).
```

Operators and Bool

- You can use == and != on None with other values
- bool(None) is False