## Behavioral Patterns: Null



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#### Overview



**Classification: Behavioral** 

Provides a default object to clients

**Avoids null references** 

Client need not test for a valid object

Creational patterns can benefit

Let's see an example or two



### Demo



**Motivating example** 



# Use the Null pattern where tests for valid references are required



### Demo



Using the Null pattern



### Summary



Provides a default object

The default object need do nothing

**Eliminate tests for None** 

Clients can just use the object returned

Not limited to classes

Useful for functions, iterators, generators

Next time you see a test for None...

...think of using the Null Pattern instead!

