



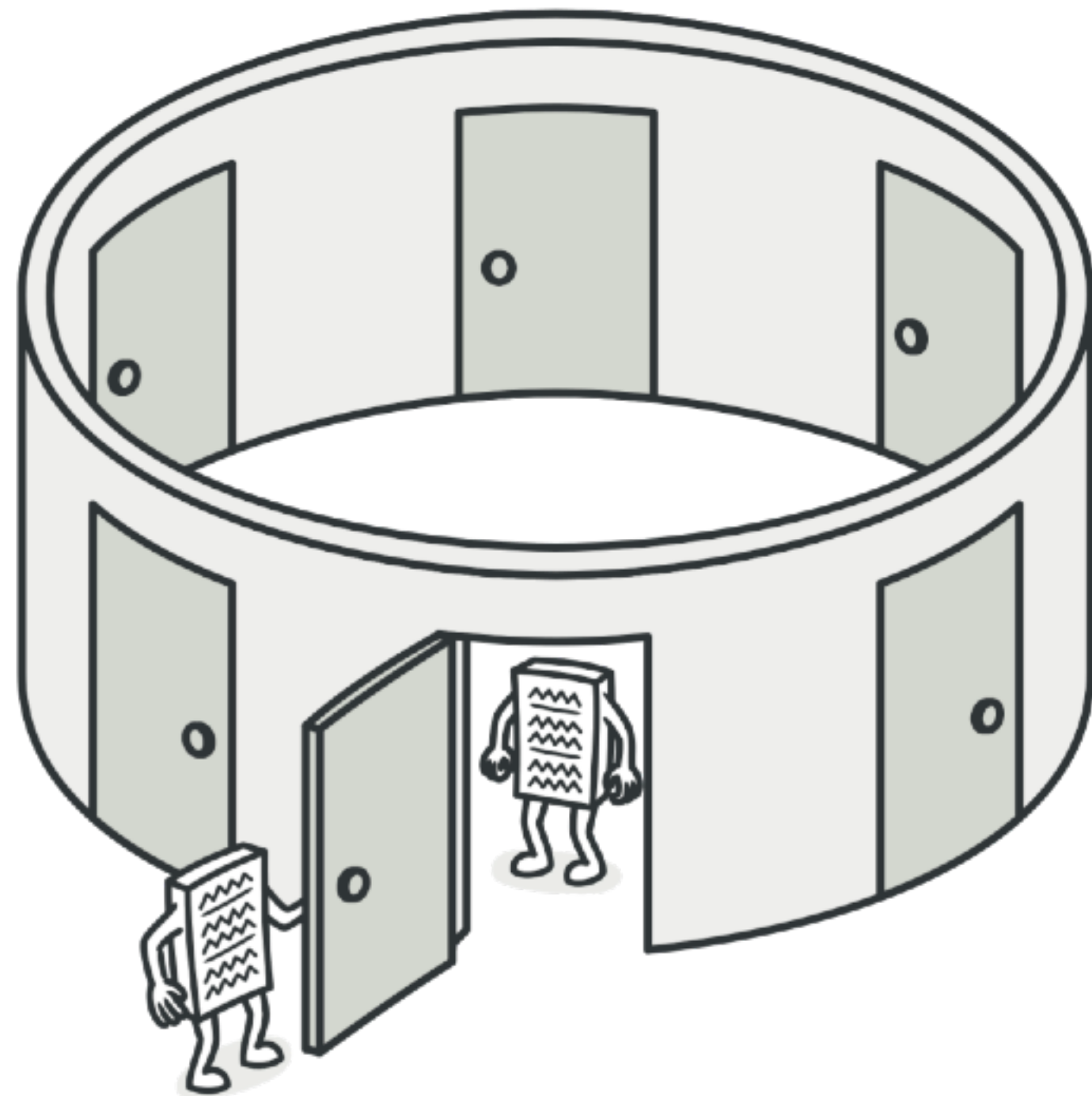
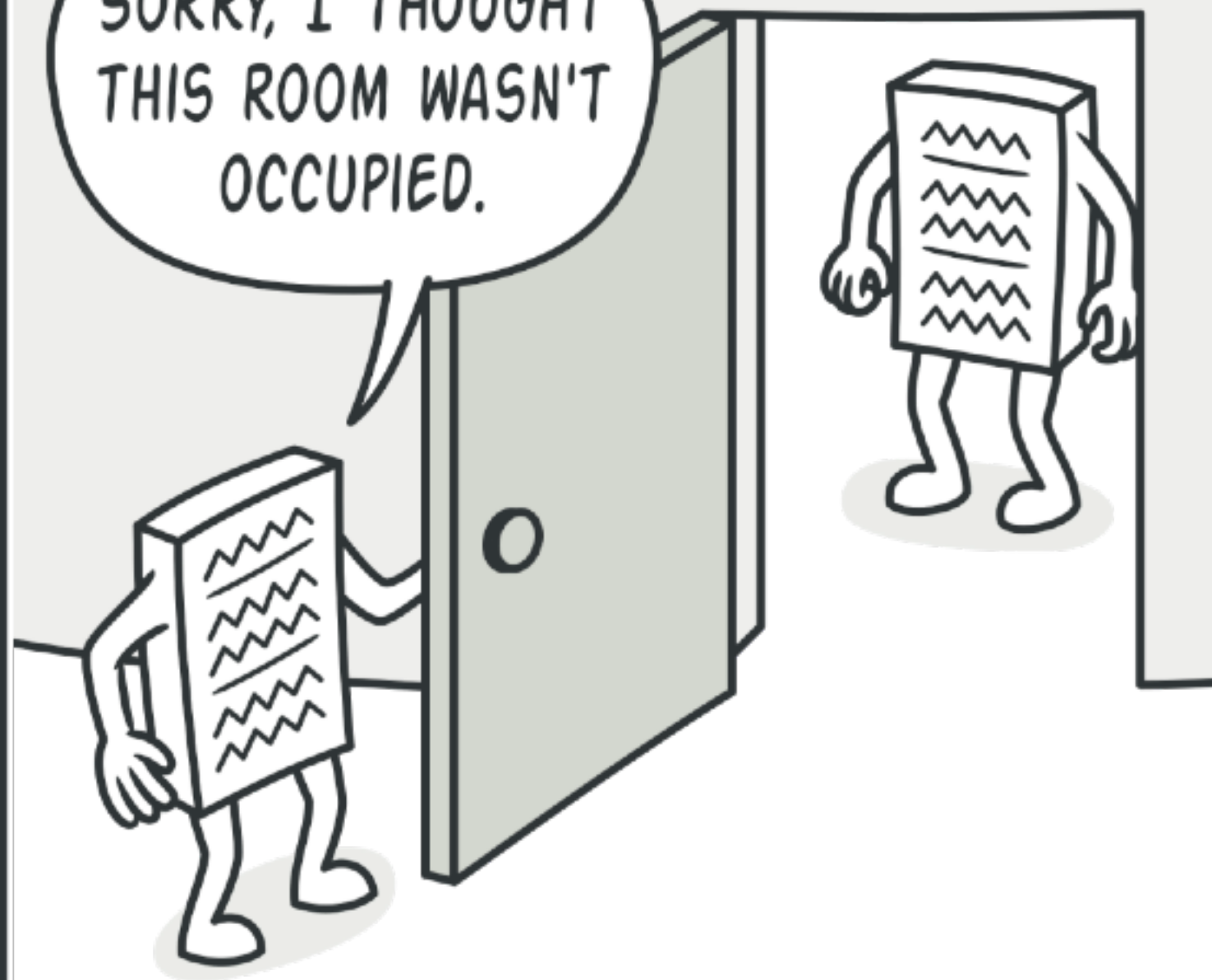


TEMPLE  
UNIVERSITY®

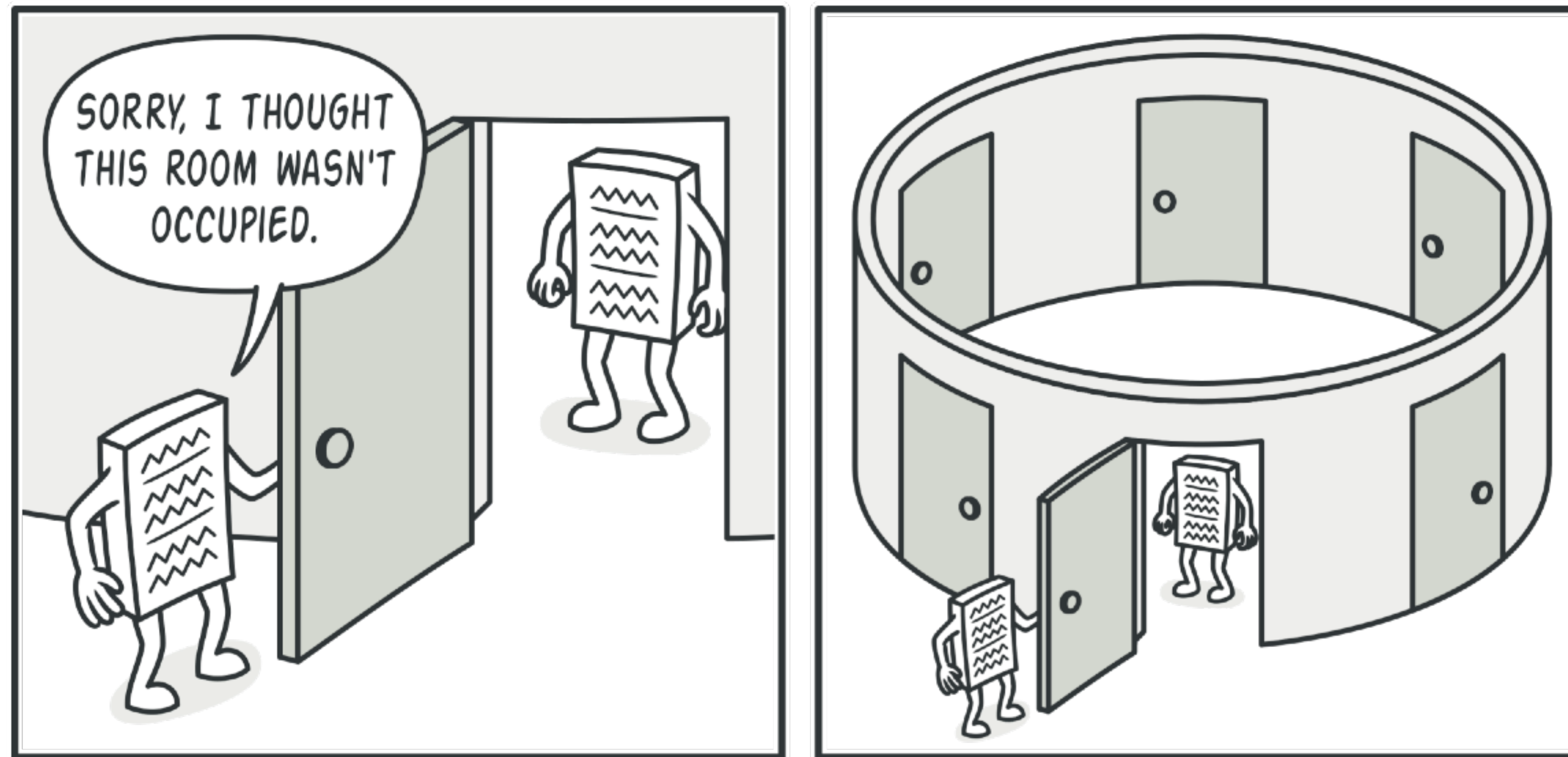
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*<https://refactoring.guru/design-patterns/singleton>*

SORRY, I THOUGHT  
THIS ROOM WASN'T  
OCCUPIED.



*Clients may not even realize that  
they're working with the **same object** all the time*



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```
1 class SingletonInstance:
2     _instance = None
3
4     def __new__(cls, *args, **kwargs):
5         if not cls._instance:
6             cls._instance = super(SingletonInstance, cls).__new__(cls, *args, **kwargs)
7         return cls._instance
8
9     def __init__(self):
10         self.essential_object = "This is an essential object"
11
12     def get_essential_object(self):
13         return self.essential_object
14
15     def set_essential_object(self, new_value):
16         self.essential_object = new_value
17
18 def get_global_instance():
19     return SingletonInstance()
20
21 if __name__ == "__main__":
22     # Getting the global access point
23     instance1 = get_global_instance()
24     print(instance1.get_essential_object())
25
26     # Modifying the essential object
27     instance1.set_essential_object("Modified essential object")
28
29     # Accessing again
30     instance2 = get_global_instance()
31     print(instance2.get_essential_object())
32
33     print(instance1 is instance2)
```