

Singleton



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Overview

Motivation

SessionState

Thread-safety

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Motivation

Uniqueness

- Only one instance can be created
- The only instance cannot be copied

Thread-safety

- During initialization
- When accessing public properties and methods

Singleton

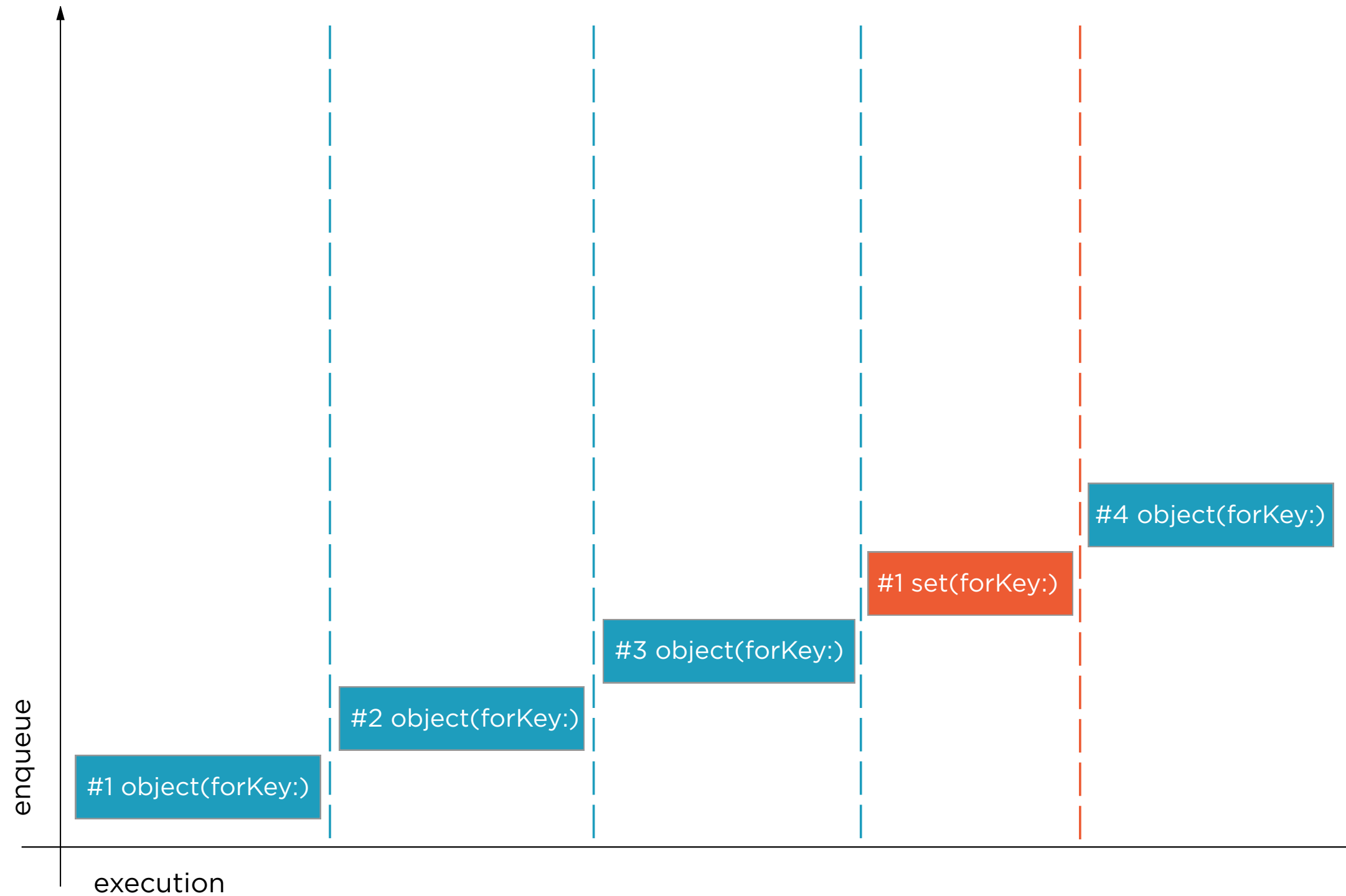
The Singleton pattern ensures that only one instance of a given type exists.

Demo

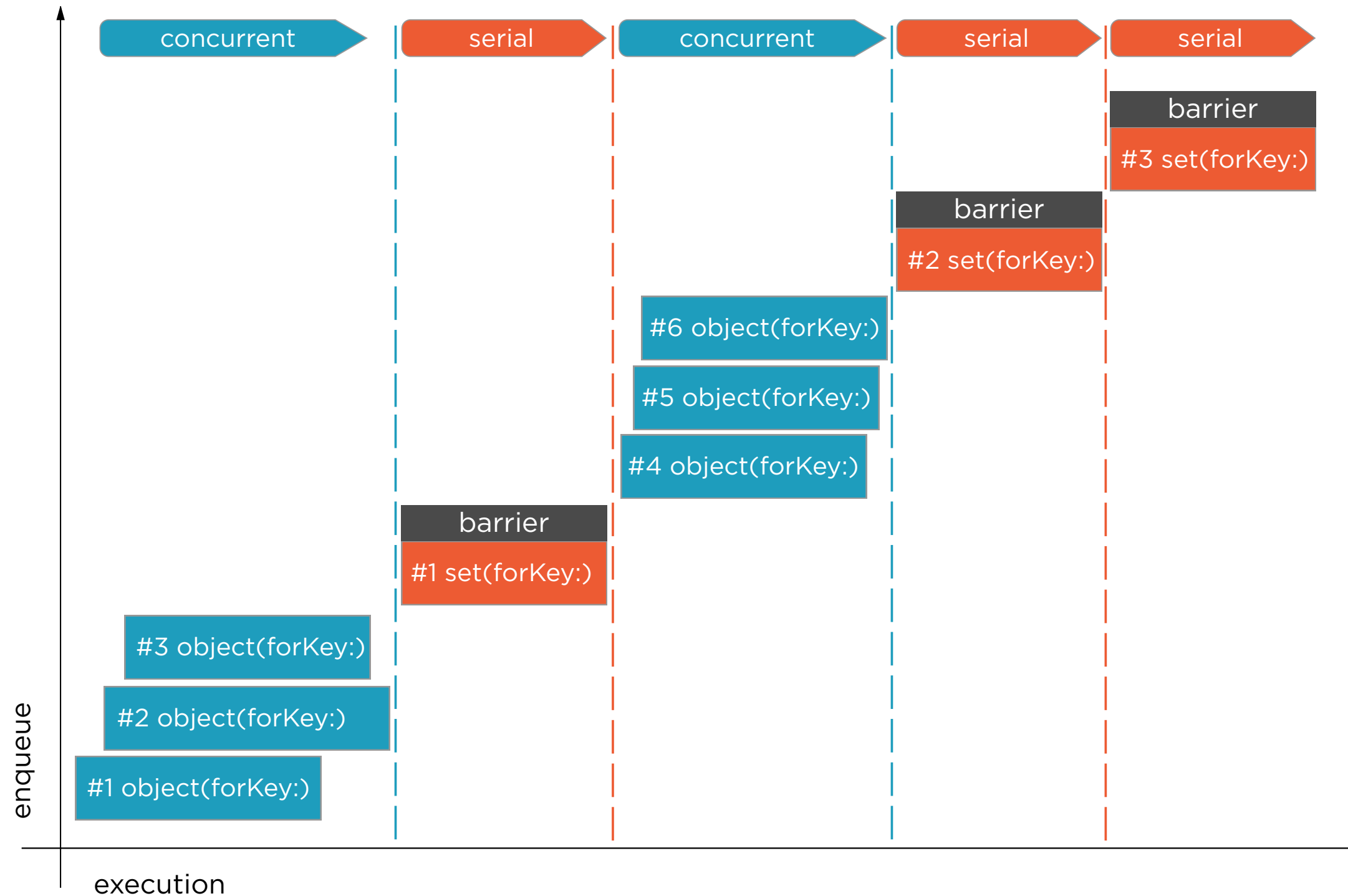
SessionState

- Implement Singleton
- Protect against concurrent usage

Serial Queue



Concurrent Queue with Barrier



Summary

The Singleton is easy to understand

- Create a class which can only be instantiated once

Prevent Copying/Cloning

- No value types
- No NSCopying classes

Protect against concurrent access

- Ensure thread safety