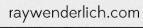
Introducing

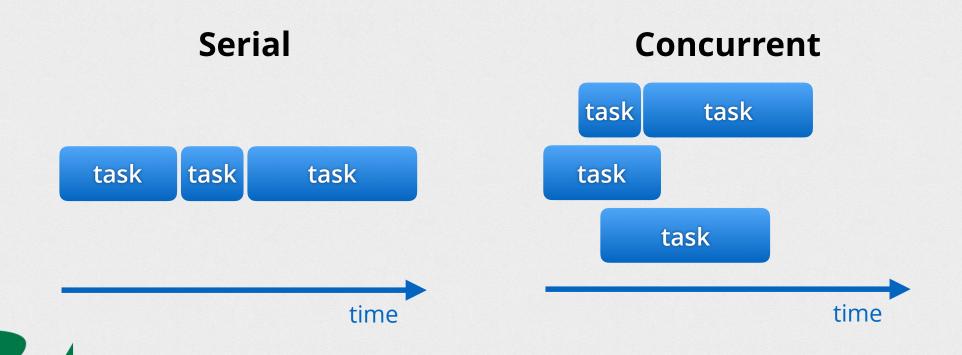
Concurrency

Grand Central Dispatch

Grand Central Dispatch



GCD Queues



raywenderlich.com

Queue Types

```
# QOS_CLASS_USER_INTERACTIVE
# QOS_CLASS_USER_INITIATED
# QOS_CLASS_DEFAULT
# QOS_CLASS_UTILITY
# QOS_CLASS_BACKGROUND
```

```
let queue = dispatch_get_global_queue(QOS_CLASS_USER_INITIATED, 0)
let mainQueue = dispatch_get_main_queue()
```



Adding Tasks to the Queue

```
public func dispatch_async(queue: dispatch_queue_t, _ block: dispatch_block_t)
public func dispatch_sync(queue: dispatch_queue_t, _ block: dispatch_block_t)
```

```
dispatch_async(workerQueue) {
  print("Running on an asynchronous queue")
}
```

It's Challenge Time!

Convert slowSum() into an asynchronous function

```
// Demo of the sync function
print("=== Starting Sync ===")
let result = slowSum((1, 2))
print("SYNC Result = \((result)"))

"=== Starting Sync ===\n"
3
"SYNC Result = 3\n"
```