



**Suspend Functions**

**how can we make this code async?**











































































































































































































































































































































































































\* pseudocode - it wouldn't actually work but is a lot more complicated

**Callback Hell**

}

}

}

}

```
fun fakeRetzls(callback: (list<FinishedRetzls>) -> Unit) {}
```

preheatOven(ColdOven){hotOven->

prepareDough { dough ->



```
val shapedPretnels = List(5){shapedPretnel(dough)}  
// *this is tricky
```

bake(hotOven,shapedPretzels){bakedPretzels->

```
val bakedPrezels = bakePrezels.map{ // *this is tricky
```

prepareTopping() { topping ->

addTopping(it, topping)





callBack(bakedPrezels)



# Suspend Functions

how can we make this code async?

```
fun bakePretzels(callback: (List<FinishedPretzel>) -> Unit) {  
    preheatOven(ColdOven) { hotOven ->  
        prepareDough { dough ->  
            val shapedPretzels = List(5) { shapePretzel(dough) } /*this is tricky  
            bake(hotOven, shapedPretzels) { bakedPretzels ->  
                val bakedPretzels = bakePretzels.map { /*this is tricky  
                    prepareTopping { topping ->  
                        addTopping(i, topping)  
                    }  
                }  
            }  
            callback(bakedPretzels)  
        }  
    }  
}
```



\* pseudocode - it wouldn't actually work because handling collections is a lot more complicated

# Suspend Functions

how can we make this code async?

```
fun bakePretzels(): List<FinishedPretzel> {  
    val oven = preheatOven(ColdOven)  
    val dough = prepareDough()  
    val shapedPretzels: List<UncookedPretzel> = List(5) { shapePretzel(dough) }  
    val bakedPretzels: List<CookedPretzel> = bake(oven, shapedPretzels)  
    val topping: Topping = prepareTopping()  
    return bakedPretzels.map { finishPretzel(it, topping) }  
}
```