

How to Make an App For Beginners

Module 2
Lesson 6
Worksheet



Welcome!

In this worksheet, you'll practice working with Dictionaries!

Just in case you don't remember how you got here (or if you need a refresher), Lesson 6 can be found here:

<https://www.youtube.com/watch?v=8Tx8RKdvUMw>

Step 1: We'll be doing these exercises in a Swift Playground.

Open Xcode and create a new playground
(File Menu->New->Playground).

From the list of Playground templates, just select "**Blank**"

Step #2: Declare two dictionaries. One empty and another one with two key value pairs inside already.

```
var dict = ["CA":"California", "TX":"Texas"]  
var emptyDict = [String:String]()
```

Step #3: Practice adding elements into the dictionary by typing out the code below. Feel free to experiment on your own and add more key value pairs.

```
dict["AL"] = "Alabama"  
print(dict)
```

Step #4: Practice accessing dictionary values by typing out the following code. Xcode will give you an error. What's wrong?

```
// Accessing values
print(dict["AL"]!)
print(dict["CA"]!)
print(dict["NY"]!)
print(dict.count)
```

The issue is caused by the following line:

```
print(dict["NY"]!)
```

Since our dictionary doesn't contain a key called "NY", we're trying to unwrap an optional, we're getting nil and then trying to print nil.

Instead, we can check if it is nil before doing this. You learned how to do this in the previous lesson. See if you can remember what to do before looking at the solution below!

```
if dict["NY"] != nil {
    print(dict["NY"]!)
}
```

Step #5: Practice removing key value pairs by typing out the following code.

```
dict.removeValue(forKey: "CA")
print(dict)

dict["AL"] = nil
print(dict)
```

What happens if you try to remove a key value pair that doesn't exist? Try it out!

You're done! If you completed this exercise, celebrate and let me know on Twitter!

<https://twitter.com/CodeWithChris>

Download the playground for this worksheet here:

[https://codewithchris.com/code/Module02Lesson06Playground\(YT\).zip](https://codewithchris.com/code/Module02Lesson06Playground(YT).zip)