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# CMSC 115 Reading Guide

Please enter your responses in red.

# 9.1 Dictionaries Re-read

1. What is a Python dictionary? A python dictionary is a data structure that is useful for solving many problems, it’s a collection, but not a sequence.

## 9.1.1 Read

## 9.1.2 Re-read

1. What syntax is used to create a dictionary? You can use dict, or {} as the syntax.

## 9.1.3 Re-read

1. How do you assign a value to a dictionary entry? You assign a value to a dictionary entry by using the key as the index value.
2. Why is it significant that dictionaries can have different *types* as keys? How does this differ from lists? It is significant that dictionaries can have different types as keys as it allows nesting of dictionaries, and this allows you to access different parts inside the dictionary.

## 9.1.4 Re-read

1. How does the for keyword work with dictionary types? The for keyword with dictionary types is used to iterate through keys in the dictionary.

## 9.1.5 Skim

1. What does it mean that dictionaries are *unordered*? In what situations might you want an ordered one? Dictionaries are unordered to improve efficiency and means that items added later are not always going to show up last. You might want an ordered dictionary when you need a sorted collection.