Lesson 6.02: Dictionaries Methods ## Learning Objectives Students will be able to... * Define and identify: **pop**, **default value** * Update values in a dictionary * Add values to a dictionary * Remove values from a dictionary ## Materials/Preparation * [Do Now] * [Lab - Word Counter] ([printable lab document]) ([editable lab document]) * Solution (access protected resources by clicking on "Additional Curriculum Materials" on the [TEALS Dashboard]) * [Associated Reading - section 6.2](https://tealsk12.gitbook.io/intro-cs-2/readings#6-2) * Read through the do now, lesson, and lab so that you are familiar with the requirements and can assist students ## Pacing Guide | **Duration** | **Description** | | ---------- | ----------- | | 5 Minutes | Do Now | | 10 Minutes | Lesson | | 35 Minutes | Lab | | 5 Minutes | Debrief | ## Instructor's Notes ### 1. Do Now * Display the Do Now on the board. * Students type code that edits dictionaries by modifying, adding, or removing key:value pairs. ### 2. Lesson #### Part 1 of the Do Now * Discuss what the students learned from and go over what the code is doing. * Describe that you can update a value in a dictionary in a similar way to how you would update a value in a list. #### Part 2 of the Do Now * Discuss what the students learned from and go over what the code is doing. * Note that you can add values to a dictionary by using the same syntax. * Review: How might you check if a value was in a dictionary before adding it? #### Part 3 of the Do Now * Discuss what the students learned from and go over what the code is doing. * Review what **pop** does, as well as what the second argument does. * This is the value that will be returned if the first argument is not in the dictionary. ### 3. Lab * Students will create a word count algorithm that will count the number of words in a list of words. ### 4. Debrief * Talk about any confusion the students had. Discuss additional ideas of how dictionaries might be useful. ## Accommodation/Differentiation Some students may need to be explicitly reminded of the `in` keyword to check if a certain key is in their dictionary. ## Forum discussion [Lesson 6.02: Dictionaries Methods (TEALS Discourse Account Required)](https://forums.tealsk12.org/c/2nd-semester-unit-6-dictionaries/lesson-6-02-dictionaries-methods) [Do Now]: do_now.md.html [Lab - Word Counter]: lab.md.html [TEALS Dashboard]:http:/www.tealsk12.org/dashboard [printable lab document]: https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/6_unit/02_lesson/lab.pdf [editable lab document]: https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/6_unit/02_lesson/lab.docx