Notes from <https://ungaretti.gitbooks.io/red-language-notebook/content/hello-world-run-and-compile.html>

1. “Hello world” run and compile
   1. print “Hello world”
   2. 3 + 7
      1. Must have spaces, used as delimiters
   3. ;Comments after semicolons
   4. Red is an interpreted language (execute one line of code at a time, no compiling), sort of (Red does some compiling before running), but programs are still called scripts
      1. Every Red script (program) must start with Red (not RED or red)
      2. Anything in brackets [ ] is called a block
         1. First block is intended to contain information about your program
         2. Info is mostly optional, but this is also where you declare libraries
   5. GUI interface super easy to use
2. Notes on syntax
   1. Case insensitive, with some exceptions
      1. Script must begin with Red (not RED or red)
      2. New-line characters are mostly ignored by the interpreter
      3. Red is a functional language, meaning that it evaluates a result
   2. Red behavior
      1. A Red script is a chain of “words”
         1. Words may be data or actions
         2. Words are separated by one or more whitespaces
         3. Red keeps a dictionary with system words and user-created words
         4. Words may be grouped into “blocks” by enclosing them with brackets
            1. Blocks are not necessarily routines, they are a group of words that my or may not be evaluated by an action
      2. All program data is inside the program itself
         1. If external data is required, it is added to the program’s chain of “words”
      3. Every word must have a value while evaluated. This value may come from
         1. The word itself, if data
         2. Evaluation, if the word is an action
         3. Another word or block
      4. You may say that the variable is assigned to the data, not the other way around
      5. Every word has a datatype
3. Console input and output
   1. print – println
   2. prin – print
   3. input – inputs a string from the console
   4. ask – same as input, but displays a sting
4. Datatypes
   1. A Red script is a sequence of words. During evaluation, Red classifies every word as a specific datatype
   2. Everything in Red has a datatype, even datatypes
   3. Datatypes have an exclamation mark at the end of their names
   4. To get a list of all datatypes, type ? datatype!
5. Math and logic
   1. Standard evaluation, usual math and logic