Basic object types: exercises

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1 Task 1

Create a vector containing the numbers 2, 5, 2.4 and 11.

- 1. What is the type of this vector?
- 2. Replace the second element with 5.9.
- 3. Add the elements 3 and 1 to the beginning, and the elements "8.0" and "9.2" to the end of the vector.
- 4. Transform this vector into the type integer. What happens?

2 Task 2

- 1. What type is the following vector: "2", "Hello", 4.0, and TRUE
- 2. What hierarchy is underlying this?

3 Task 3

- 1. Create a vector with the numbers from -8 to 9 (step size: 0.5)
- 2. Compute the square root of each element of the first vector using vectorisation. Anything that draws your attention?

4 Task 4

Create a list that has three named elements: "A", "B", and "C" $\,$

- $\bullet\,$ The element "A" should contain the square root of the numbers form -2 to 8 (step size: 1)
- The element "B" should contain the log of numbers between 2 and 4 (step size: 0.5)
- The element "C" should contain letters from a1 to g7 (hint: use the pre-defined vector letters and the function paste())

Link to the solutions