

Lecture 1.9 – Factors, Special Values, and Class Coercion

Specific Learning Objectives:

1.1.9 – Understand the data classes of R.

1.1.13 – List the special values of R.

1.1.14 – Create ordered and unordered factors.

1.1.15 – Learn to coerce data from one class to another.

Info on Skill Check 1

Skill Check 1 will be on **Friday September 20.**

- It will be in class, so you will have 50 minutes to complete it.
- There will be 10 questions.
- It will cover all CLO in Unit 1 (check schedule and CLO for info).
- You may bring any physical resource (notes, assignments, book) but will not be allowed the use of electronics.
- It will be scored complete or not complete. (All 10 questions will need to be completed.)
- You will receive feedback and get another in-class opportunity to complete it.
- It will be aimed at basic/advanced competence level (C/B-level).

Check Your Understanding

Create a data frame that contains:

- a column of class character describing something in your current surroundings**
- a column of class factor describing the color of those items**

Check Your Understanding

What would you do in the following scenarios?

- a) You have a data set in a data frame. It is very large, and you want to know whether or not it has missing data values. You'd also like to remove those values so that you only have a set of complete observations.

- b) You have a data frame in which you use your own function with vectorized calculations. When you look at the output, it is `NULL`. What has happened? What should you do?

Check Your Understanding

Which command can accomplish the following coercions:

- a) a logical vector into a numeric vector**
- b) a numeric vector into a character vector**
- c) two vectors into a data frame**
- d) a list into a vector**

Check Your Understanding

1. Old Assignment questions
2. Assignments 1.12 and 1.13

Action Items

- 1. Complete Assignments 1.12 and 1.13.**
- 2. Watch L1.10 Video for next time.**
- 3. Prepare for your first Skill Check!**