Introduction to Data Science – Week 3 – Exercises

Before Starting
Make sure you have finished the previous exercises.

R Exercises
1. **The "hotdog" variable for the "Hot Dogs in Baltimore" example can be better defined.**
   How can we ensure that all variations of "hot dogs" are represented?
2. **I prefer Pizza.**
   OK, create a "pizza" variable then.
3. **Get the name of the town for the "Hot Dogs in Baltimore" example.**
   Filter the name of the town from the location variable: *("**Towson** 21204\n(39.28540000000, -76.62260000000)" "**Owings Mill** 21117\n(39.29860000000, -76.61280000000)" "**Owings Mill** 21117\n(39.28920000000, -76.62670000000)" "**Owings Mill** 21117\n(39.28870000000, -76.61360000000)"...)* – search for grep examples on stackoverflow.com on how to do this.
   Hint: there is a ~~lazier~~ simpler way: we already have the name and ZIP code...
4. **Complete the Codebook for the "Hot Dogs in Baltimore" example.**
   Create a ***clean*** markdown file with all steps required to eliminate some columns, add and clean others. Make sure to include a codebook for the variables (even the ones you've created!)

Send the link to the answer of these exercises to the instructors (rafael.santos@inpe.br ***and*** gilberto.queiroz@inpe.br).