# Data Import

Quantide Srl 2016-05-02

First of all, set your working directory in the data folder, using setwd() function, like in this example

```
setwd("C:/Users/Veronica/Documents/data)
```

## Text Files

#### Exercise 1

a. Import text file named "tuscany.txt" and save it in the object tuscany\_df.

Open the text file before importing it to control if the first row contains column names and to control the field and the decimal separator characters. Remember to not import the character columns as factors

```
##
      id sex year_of_birth marital_status income house_number
## 1
       1
           М
                        1969
                                    married 16101.1
                                                             5144.0
## 2
       2
           М
                        1962
                                      single 17220.0
                                                             6158.0
## 3
       3
           М
                        1965
                                    divorcee 28801.9
                                                           10078.0
       4
           F
## 4
                                      single 25964.0
                                                           11133.7
                        1968
## 5
       5
                                    married 16522.5
                                                             5078.0
           М
                        1975
## 6
       6
           М
                        1977
                                    married 18124.0
                                                             5115.0
##
  7
       7
           М
                        1972
                                      single 25145.0
                                                             9801.0
## 8
       8
           F
                        1974
                                    married 12741.0
                                                             5752.0
## 9
       9
           F
                        1978
                                    married 19051.0
                                                             6947.0
## 10 10
           F
                                    married 28893.0
                                                             9635.0
                        1964
## 11 11
           Μ
                        1963
                                    divorcee 29389.0
                                                             9950.0
            F
## 12 12
                        1975
                                    married 20169.0
                                                             7248.0
## 13 13
           F
                                    married 20874.0
                                                             5313.0
                        1984
## 14 14
           М
                        1971
                                    married 25649.4
                                                             8391.0
## 15 15
           F
                                                             9396.0
                        1969
                                      single 27457.0
## 16 16
           F
                        1977
                                    married 19975.0
                                                             6717.0
## 17 17
           F
                                    marriedo 20824.0
                                                             5699.0
                        1968
## 18 18
           F
                        1956
                                    married 13890.0
                                                             4479.0
## 19 19
           F
                                    married 25567.0
                        1972
                                                             9258.0
## 20 20
           F
                        1973
                                      single 13551.0
                                                             3890.0
                                   divorcee 15954.0
## 21 21
           F
                                                             6142.0
                        1972
## 22 22
                                    divorcee 27277.0
                                                             8470.0
           М
                        1961
## 23 23
           М
                                    married 12444.0
                                                             3840.0
                        1970
## 24 24
           М
                        1979
                                    married 22243.0
                                                             6473.0
## 25 25
           F
                        1974
                                    married 25606.0
                                                             6583.0
## 26 26
           М
                        1978
                                    divorcee 23225.7
                                                             6261.0
## 27 27
           F
                        1975
                                    married 16617.0
                                                             5080.0
```

```
## 28 28
           F
                       1951
                                    married 30496.0
                                                           10760.0
## 29 29
           М
                       1964
                                    married 26913.0
                                                            8785.0
## 30 30
           F
                       1963
                                     single 27856.0
                                                            7801.0
##
                   city_name province provincial_acronym
## 1
                  Riparbella
                                  Pisa
## 2
                    Capolona
                                                        AR
                                Arezzo
## 3
                   Pomarance
                                  Pisa
                                                        ΡI
## 4
                     Cascina
                                  Pisa
                                                        PΙ
## 5
                    Quarrata
                              Pistoia
                                                        PT
## 6
      Castiglion Fiorentino
                                Arezzo
                                                        AR
## 7
      Castel San Niccol\xf2
                                Arezzo
                                                        AR
       Barberino Val d Elsa
                                                        FΙ
## 8
                              Firenze
## 9
            Forte dei Marmi
                                 Lucca
                                                        LU
## 10
                                                        PΙ
                     Fauglia
                                  Pisa
## 11
                                                        FΙ
           Capraia e Limite
                              Firenze
## 12
             Gambassi Terme
                              Firenze
                                                        FΙ
## 13
                                                        AR
                      Bucine
                                Arezzo
## 14
                 Terricciola
                                  Pisa
                                                        PΙ
## 15
                                                        LI
        Campiglia Marittima Livorno
## 16
                     Abetone
                              Pistoia
                                                        PT
## 17
                      Vaglia Firenze
                                                        FΙ
## 18
             Bagno a Ripoli
                              Firenze
                                                        FΙ
## 19
                   Pontedera
                                                        ΡI
                                  Pisa
## 20
              Rio nell Elba Livorno
                                                        LI
## 21
                                                        FΙ
                       Signa
                             Firenze
## 22
                    Stazzema
                                 Lucca
                                                        LU
## 23
          San Piero a Sieve
                                                        FΙ
                              Firenze
## 24
                    Piombino
                                                        LI
                              Livorno
                                                        LU
## 25
                   Molazzana
                                 Lucca
                                                        PΙ
## 26
                  Santa Luce
                                  Pisa
## 27
           Castelfiorentino
                              Firenze
                                                        FΙ
## 28
                     Livorno
                              Livorno
                                                        LI
## 29
                                                        LU
                   Gallicano
                                 Lucca
## 30
                                                        FΙ
                     Fiesole
                              Firenze
```

b. Visualize the first rows of tuscany\_df

# head(tuscany\_df)

```
##
     id sex year_of_birth marital_status income house_number
## 1
                                   married 16101.1
      1
          М
                      1969
                                                           5144.0
## 2
      2
          М
                      1962
                                    single 17220.0
                                                           6158.0
## 3
      3
          М
                      1965
                                  divorcee 28801.9
                                                          10078.0
## 4
      4
          F
                      1968
                                    single 25964.0
                                                          11133.7
## 5
      5
          М
                      1975
                                   married 16522.5
                                                           5078.0
##
  6
      6
                      1977
                                                           5115.0
          М
                                   married 18124.0
##
                  city_name province provincial_acronym
## 1
                 Riparbella
                                 Pisa
                                                        PΙ
## 2
                   Capolona
                               Arezzo
                                                        AR
                                                        PΙ
## 3
                                 Pisa
                  Pomarance
## 4
                    Cascina
                                 Pisa
                                                        PΙ
## 5
                                                        PT
                   Quarrata
                              Pistoia
## 6 Castiglion Fiorentino
                               Arezzo
                                                        AR
```

### Exercise 2

Import 7 rows of the text file named "solar.txt" skipping the first two rows and save it in the object solar\_df. Open the text file before importing it to control if the first row contains column names and to control the field and the decimal separator characters. Remember to not import the character columns as factors.

## Exercise 3

## 5 lug 20924 21645 23871 ## 6 ago 23183 22576 23556 ## 7 set 27446 27695 28664

Save the following data frame in a .txt file named "exercise-3.txt" in data folder.