

Pandas Tutorial

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Need to rename, but essentially the main body of the text

3.1 Setup

Introduce how to download and get started?

3.2 Libraries and Paths

3.3 test

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int) #dummy variable
    test = 'a string'

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

    if M is None:
        M = np.copy(VT)
    else:
        M = np.concatenate((M, VT), 1)

    VT = np.zeros((n*m,1), int)

    return M
```

Listing 1: Sample

4 The DataFrame - Understanding the data container

5 The Data - Cleaning to avoid future headaches

	year	imdbid	rating	title	id
0	1888	392728.0	0	Roundhay Garden Scene	8040
1	1892	3.0	0	Pauvre Pierrot	5433
2	1895	132134.0	0	Execution of Mary, Queen of Scots, The	6200
3	1895	14.0	0	Tables Turned on the Gardener	5444
4	1896	131.0	0	Une nuit terrible	5406