
DAT171- Object-oriented programming

Computer Assignment 1

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Plots for sample, Hungary and Germany

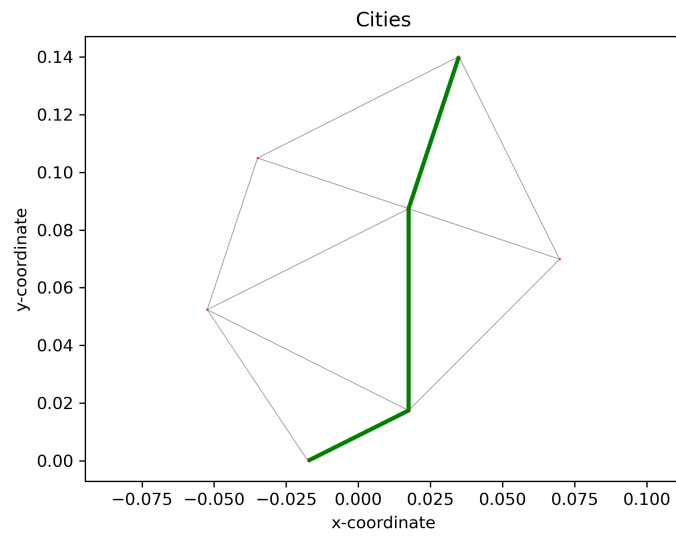


Figure 1: Sample coordinates plot

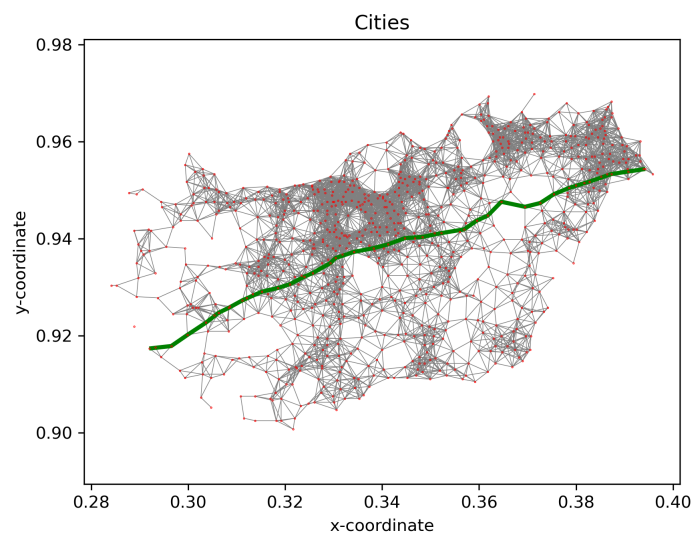
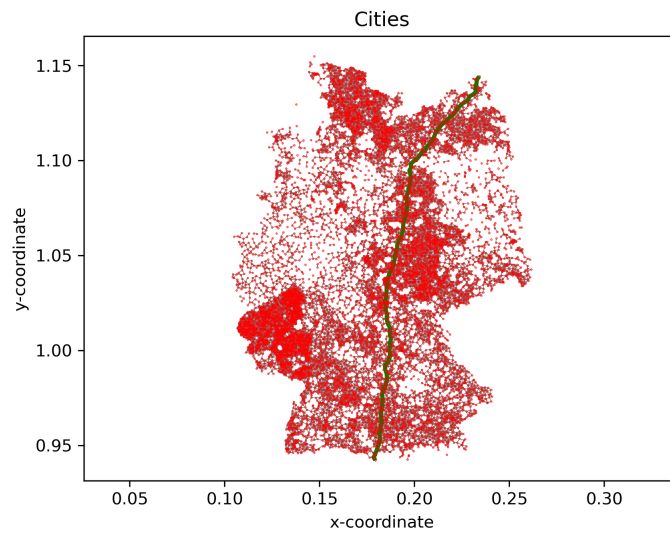


Figure 2: Hungary coordinates plot



Figur 3: Germany coordinates plot

Outputs for sample, Hungary and Germany

Country: Sample

TIMES:

reading file time: 0.000988006591796875
 construct graph connections time: 0.0
 construct graph time: 0.0010020732879638672
 construct **fast** graph time: 0.0010046958923339844
 shortest path time: 0.0019910335540771484
 plot points time: 3.3226892948150635

The total sequence of cities is [0, 4, 3, 5]

The total distance between start and end is 0.16446989717973534

Country: Hungary

TIMES:

reading file time: 0.0019943714141845703
 construct graph connections time: 0.07116389274597168
 construct **fast** graph connections time: 0.029910802841186523
 construct graph time: 0.004985332489013672
 shortest path time: 0.002129077911376953
 plot points time: 2.1258280277252197

The total sequence of cities is [311, 19, 460, 629, 269, 236, 781, 50, 193, 571, 624, 402, 370, 153, 262, 554, 126, 251, 368, 221, 827, 300, 648, 253, 836, 73, 35, 219, 503, 789, 200, 702]

The total distance between start and end is 0.11144861188215292

Country: Germany

TIMES:

reading file time: 0.015471220016479492
 construct graph connections time: 8.891132354736328
 construct **fast** graph connections time: 0.3691880702972412
 construct graph time: 0.003957033157348633
 shortest path time: 0.007013559341430664

The total sequence of cities is [1573, 7014, 2499, 3182, 2958, 4197, 4448, 2269, 5634, 3467, 6172, 4656, 4390, 3610, 3776, 4850, 6846, 764, 5614, 7656, 6251, 5004, 5932, 6906, 7571, 4712, 3700, 270, 4160, 2522, 2738, 2376, 4399, 3987, 4890, 2266, 5813, 6473, 6062, 6048, 11572, 8765, 8847, 3995, 9989, 10105, 10232, 4325, 7418, 3122, 7115, 10160, 9311, 4084, 10561, 4135, 4806, 629, 4652, 5762, 6162, 9350, 8352, 1112, 4887, 4699, 6987, 4651, 5513, 9104, 7083, 9513, 9338, 5357, 11054, 10743, 4728, 10971, 10152, 7472, 9467, 11126, 10789, 5970, 7292, 8473, 9856, 11780, 9570, 10476, 10078, 9956, 9998, 738, 10403, 9172, 11716, 6329, 7826, 8148, 6807, 9578, 7733, 7197, 7863, 9346, 10784, 8538, 11378, 10872, 5444, 4289, 6980, 6434, 7064, 7841, 9729, 10362, 7958, 10584]

The total distance between start and end is 0.2231191853660763