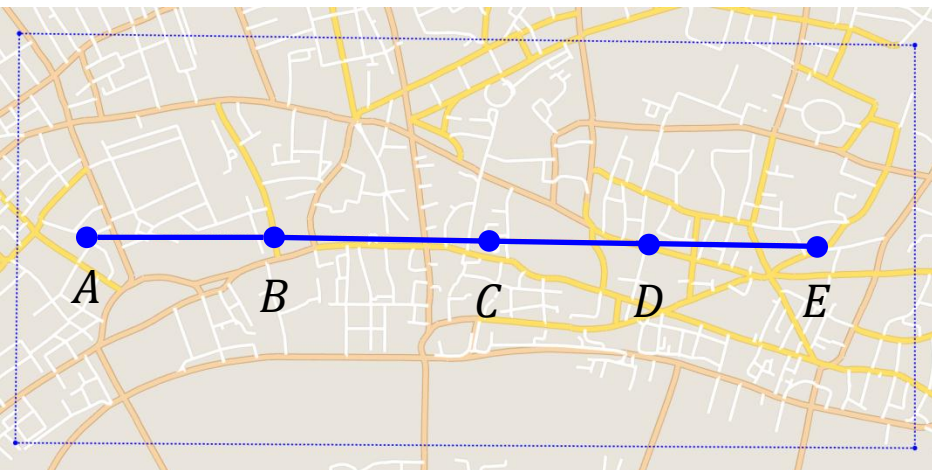
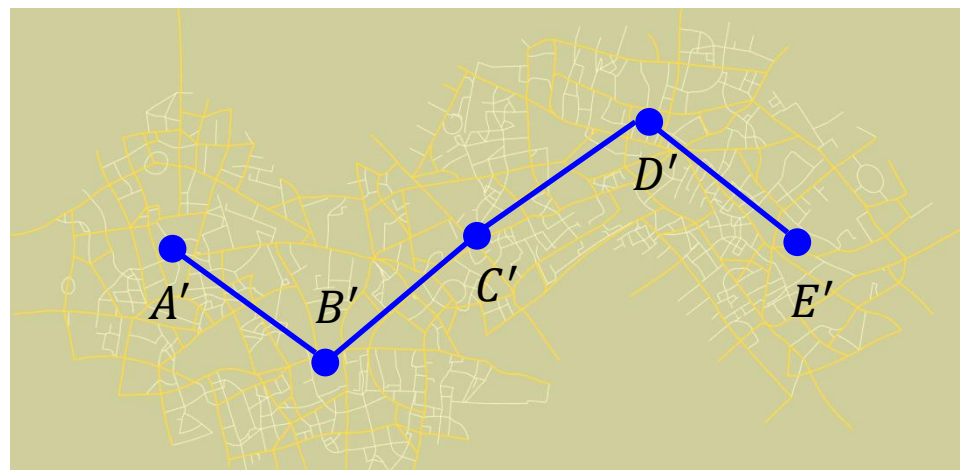


# Warping



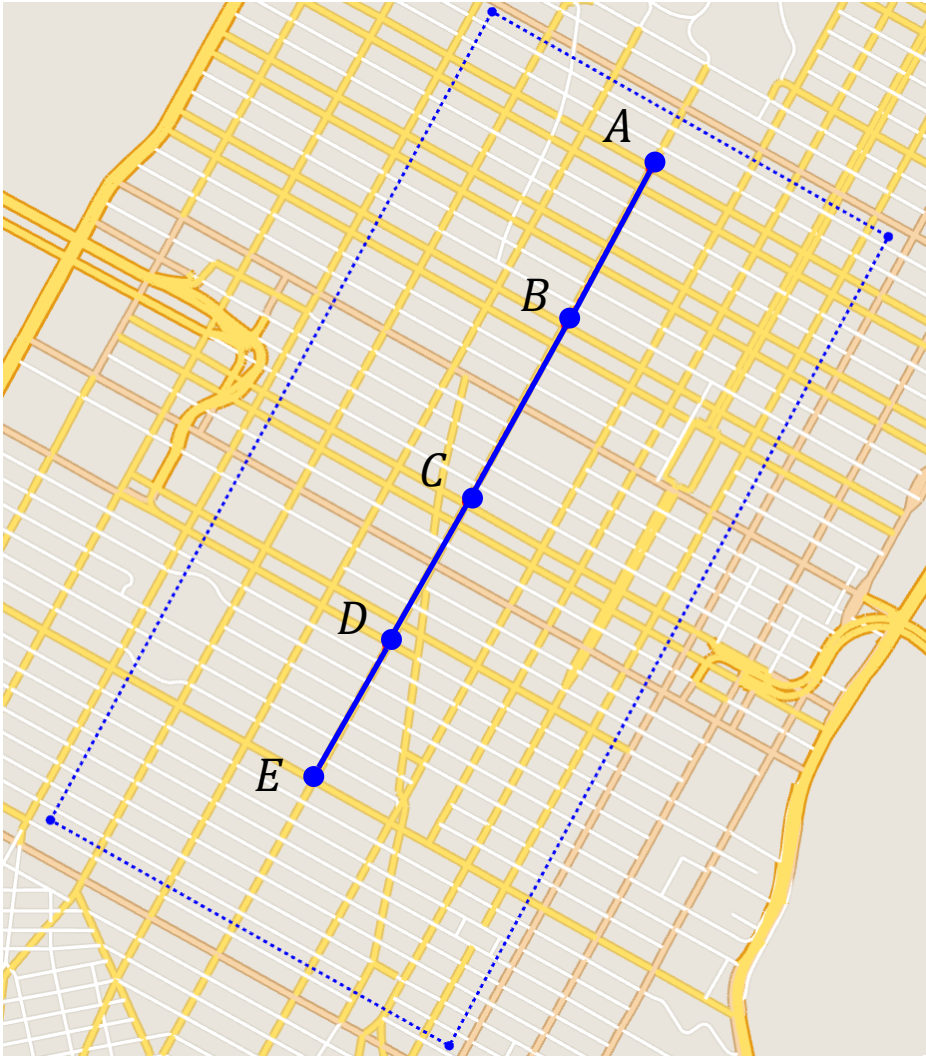
(a) The example roads in London



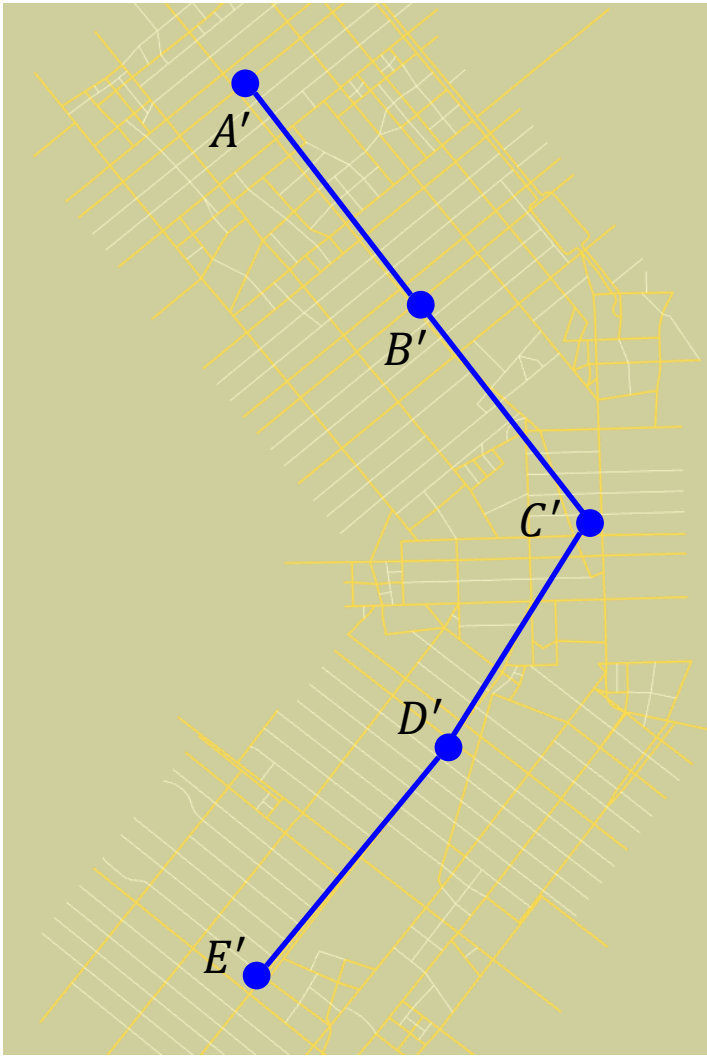
(b) The result of the roads warping

Figure. The user specifies some initial seeds from which the roads start growing incrementally, as well as a guide line segments by which the example roads are transformed when they are copied to the target area. For each initial seed, a corresponding road piece is copied to the initial seed with some rotation. The rotation angle for the initial seed  $A'$ , for instance, is defined by the angle between the vector  $AB$  and the vector  $A'B'$ . This piecewise linear transformation is useful to keep some interesting structures in the example roads.

Another result



(a) The example roads in Manhattan



(b) The result of the roads warping