

24th March 2006

NOTES ON DATA FILES

The two CVS files (KX_obs.txt and City_obs.txt) contain the data used in Hillier, et. al. (1993) in Environment and Planning B.

Following is the description of each column:

King's Cross (KX_obs.txt)

- street_id: ID of the streets where the observation took place.
- area_id: ID of the subarea within King's Cross site. See Table 2 of the paper for the description of each subarea.
- axial_ref: ID of the line of the axial map used in the paper. It is given (in white) in Figure 10.
- connectivity: the number of axial lines which are adjacent.
- control: a local space syntax measure of the axial line indicating the degree of control over the spaces immediately adjacent to it.
- RRA: the relativised RA (relative asymmetry) which measures the 'accessibility' of the space. See Hillier and Hanson (1984) "The Social Logic of Space" for the definition of RA.
- integration: the reciprocal of relativised RA.
- mov_ad_per100m:
the mean adult pedestrian movement rate per 100m per hour observed in the time periods from 8 a.m. to 6 p.m. See p.42 of the paper for details of the observation method. The value is also given (in black) in Figure 10 of the paper.
- mov_kid_per100m:
the mean child pedestrian movement rate per 100m per hour observed in the time periods from 8 a.m. to 6 p.m. See p.42 of the paper for details of the observation method.

the City (City_obs.txt)

- ID: ID of the street where the observation took place. It corresponds to the number given in Table 3 of the paper. It is also given in Figure 22 of the paper.
- tab_id: ID of the observation route described in Table 3 of the paper. It is also

given in Figure 22 of the paper.

- name: the name of the observation route described in Table 3 of the paper.
- axial_id: ID of the line of the axial map used in the paper.
- connectivity: the number of axial lines which are adjacent.
- RRA: the relativised RA (relative asymmetry) which measures the 'accessibility' of the space. See Hillier and Hanson (1984) "The Social Logic of Space" for the definition of RA.
- integration: the reciprocal of relativised RA.
- choice: global sequential choice which measures the degree of control over the connection of other spaces in the system.
- mov2, mov3, mov4:
the mean adult pedestrian movement rate per 100m per hour observed in the time period 2 (10-12 a.m.), 3 (12-2 p.m.) and 4 (2-4 p.m.). See p.42 of the paper for details of the observation method. The value is also given in Figure 22 of the paper.
- avg_mov234:
the mean of mov2, mov3 and mov4.

All the values in the data, including the spatial measures extracted from the axial maps of corresponding areas, were used 'as is' to make the statistical analysis which appeared on the Hillier et. al. (1993) paper. The spatial measures were taken from a version of the axial map which was drawn in RUCAPS CAD system when the original analysis was made.

Professor Bill Hillier (b.hillier@ucl.ac.uk)
Professor Alan Penn (a.penn@ucl.ac.uk)
University College London

Data re-compiled by Shinichi Iida (s.iida@ucl.ac.uk)