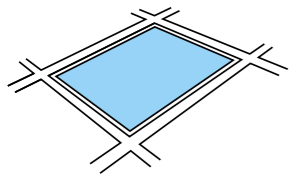


HS11 | NEW METHODS IN URBAN SIMULATION

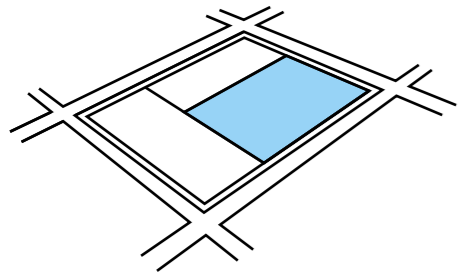
Exercise 04
workflow example ^[1]

URBAN SCALE



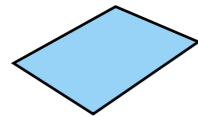
'Block' (e.g. defined by streets)
'Street'

BUILDING SCALE

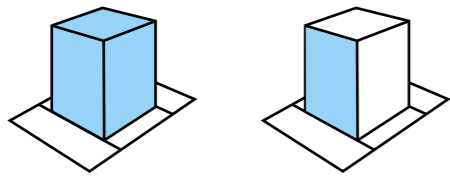
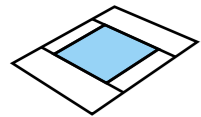


[1] LOT LEVEL

'Shape' created out of 'Block' by subdivision or created manually using 'Create Shape Tool' ^[2]

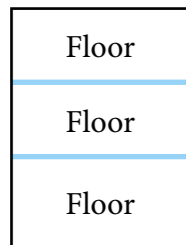


Lot subdivision using split in x and z direction according to setbacks and building disposition to define building footprint. ^[3]



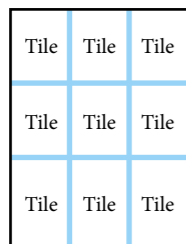
[2] BUILDING LEVEL

extrusion of the footprint
`extrude (distance)`
component split into faces
`comp (f) {selector}`



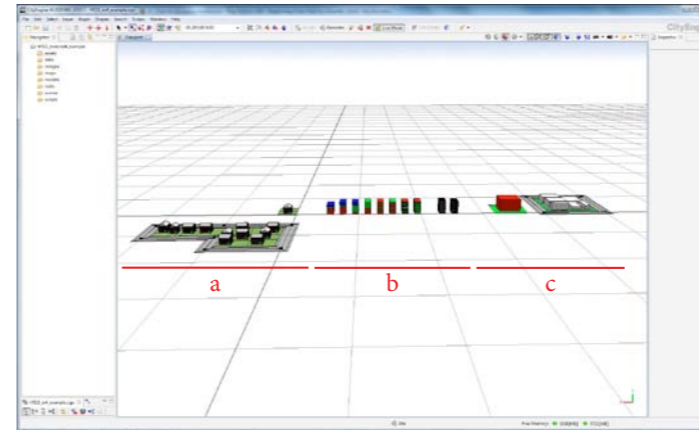
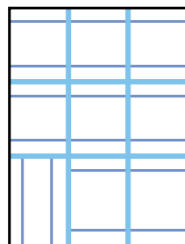
[3.1] FACADE LEVEL 1 ^[4]

split in y direction into Floors
`split (y) {}`



[3.2] FACADE LEVEL 2 ^[4]

split in x direction into Tiles
subsplit / extrude / insert further details



[1] download and import the CE project, take a look at the rule files:
HS11_exercise4_example

scene of the example file:

a) single building example

rule file:
HS11_ex4_example.cga

b) split examples

rule file:
HS11_E04_split_examples.cga
note: different start rules applied per shape

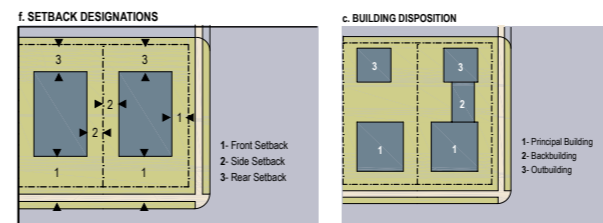
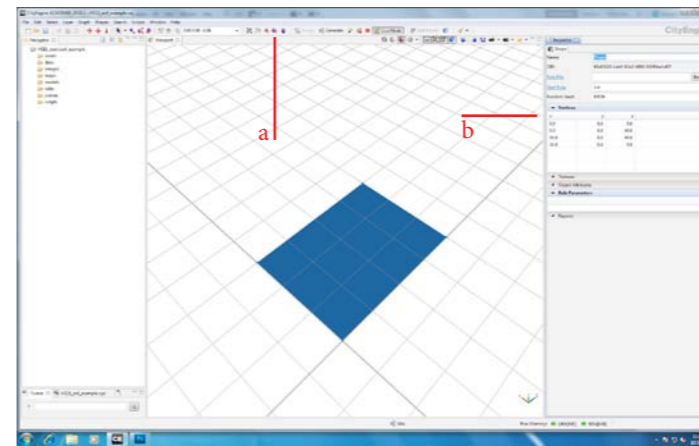
c) offset / setback examples

rule file:
HS11_ex4_offset_setback.cga

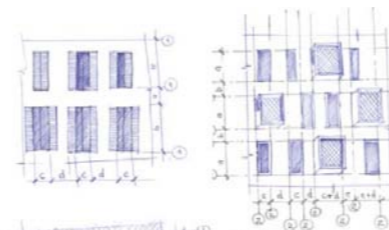
[2] generating shapes manually

a) use 'Create Shape Tool'

b) draw shape vertices and/or edit them numerically



[3] implement your findings on building disposition and dimensions from your SmartCode surveys



[4] implement your findings on facade patterns from your SmartCode surveys