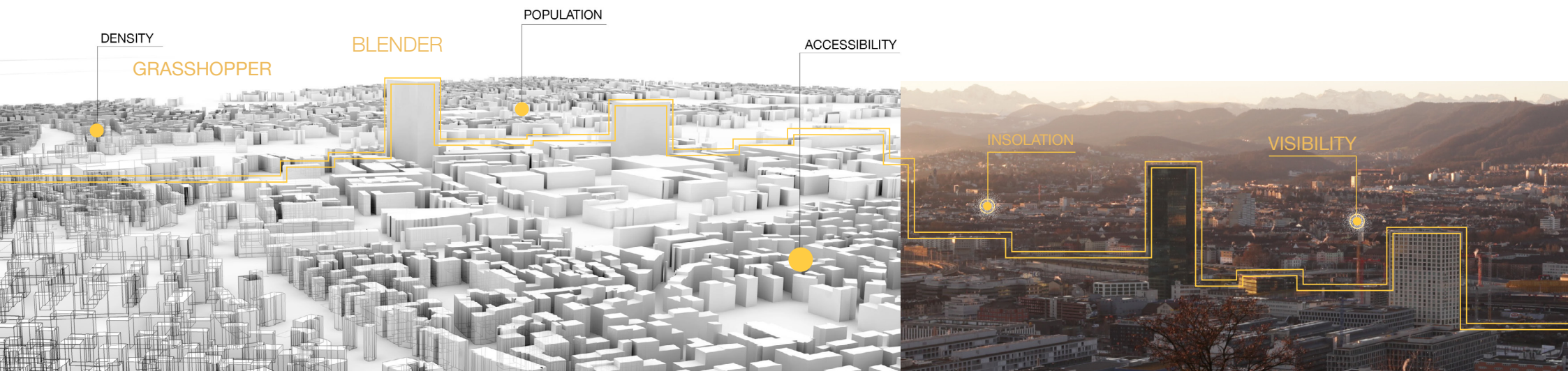


Information Architecture and Future Cities



Fridays 13:00 – 16:00
051-0725-12L | 4 ECTS

Elective Course, HIT H12 Visualize ComplexCity

The weekly course *Visualize ComplexCity* investigates the use of parametric modeling methods in *Grasshopper* coupled with the visualization/animation methods provided by *Blender 3D* in application to urban design challenges.

In the first part of the course students will learn how to translate design information into parametric models for building form exploration. We will concentrate on a particular case study in the greater Zurich area and investigate its development potentials through the means of parametric modeling. You will learn how to develop your own parametric tools for the analysis and design of urban form using information from the local context (e.g. visibility, accessibility, insolation etc.). The work at this stage of the course will be mainly performed in Grasshopper parametric plug-in for *Rhinoceros*.

In the second part of the course we will look at ways to incorporate the developed parametric models into imagery, namely: how to estimate the visual impact of the design on the local urban environment. Students will learn how to visualize the models, to incorporate them into the video footage and/or to add information to the physical models by means of projection. Among some basic film cut principles students will learn how to animate, light up, texturize, and render the design models. The final presentation of the student works will take place in the Value Lab.

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21-09-2012	Course Overview, Introduction to Grasshopper
28-10-2012	Grasshopper Part I
05-10-2012	Grasshopper Part II
12-10-2012	Introduction to Blender
19-10-2012	Blender Part I
26-10-2012	Seminarweek (Blender Course: Optional)
02-11-2012	Blender Part II
09-11-2012	Case Study Introduction
16-11-2012	Project Concept Development
23-11-2012	Integration of the Design/Analysis Information from Grasshopper into Blender 3D
30-12-2012	Project Development
07-12-2012	Final Presentation in the Value Lab