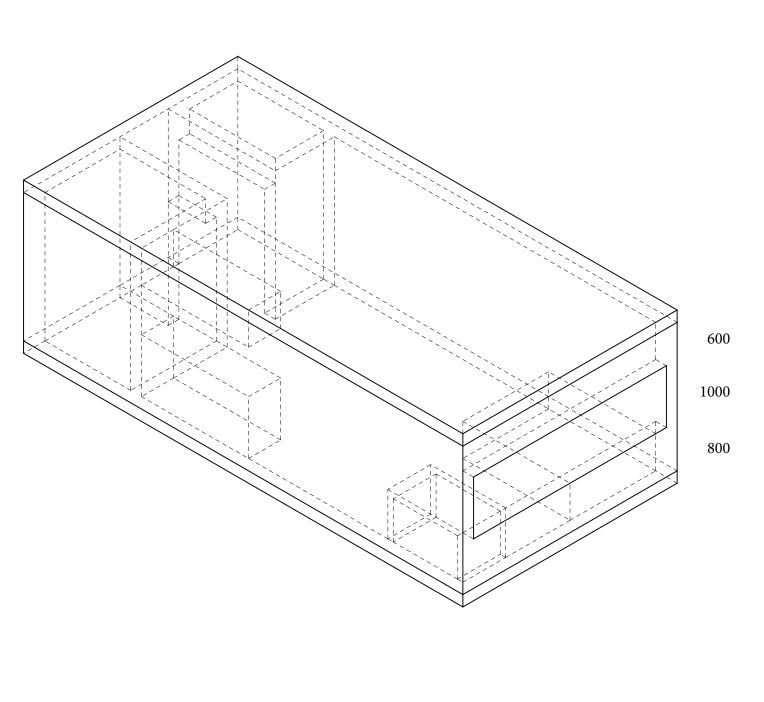


Daylight Simulation

171022 Assignment_4 DREAM ROOM in Philadelphia



City: Philadelphia, PA

Latitude: 39.8683

Longitude: -75.2311

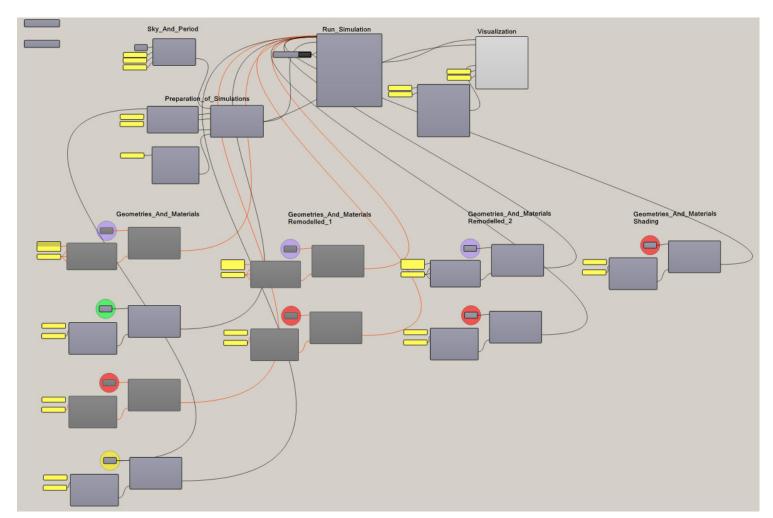
Climate:

According to the Köppen climate classification, Philadelphia falls under the northern periphery of the humid subtropical climate zone (Köppen Cfa),[71] whereas according to the Trewartha climate classification, the city has a temperate maritime climate (Do).[72] Summers are typically hot and muggy, fall and spring are generally mild, and winter is cold. (Wikipedia)

Wind:

Generally, not too extreme, however, sometimes in winter, it's quite strong.





My overall Grasshopper strategy is below. First, I simulated current condition. Second, I tried to bringing enough daylight just by changing the shape and size of the window. Lastly, I added shading to optimize the adequate daylight.

