

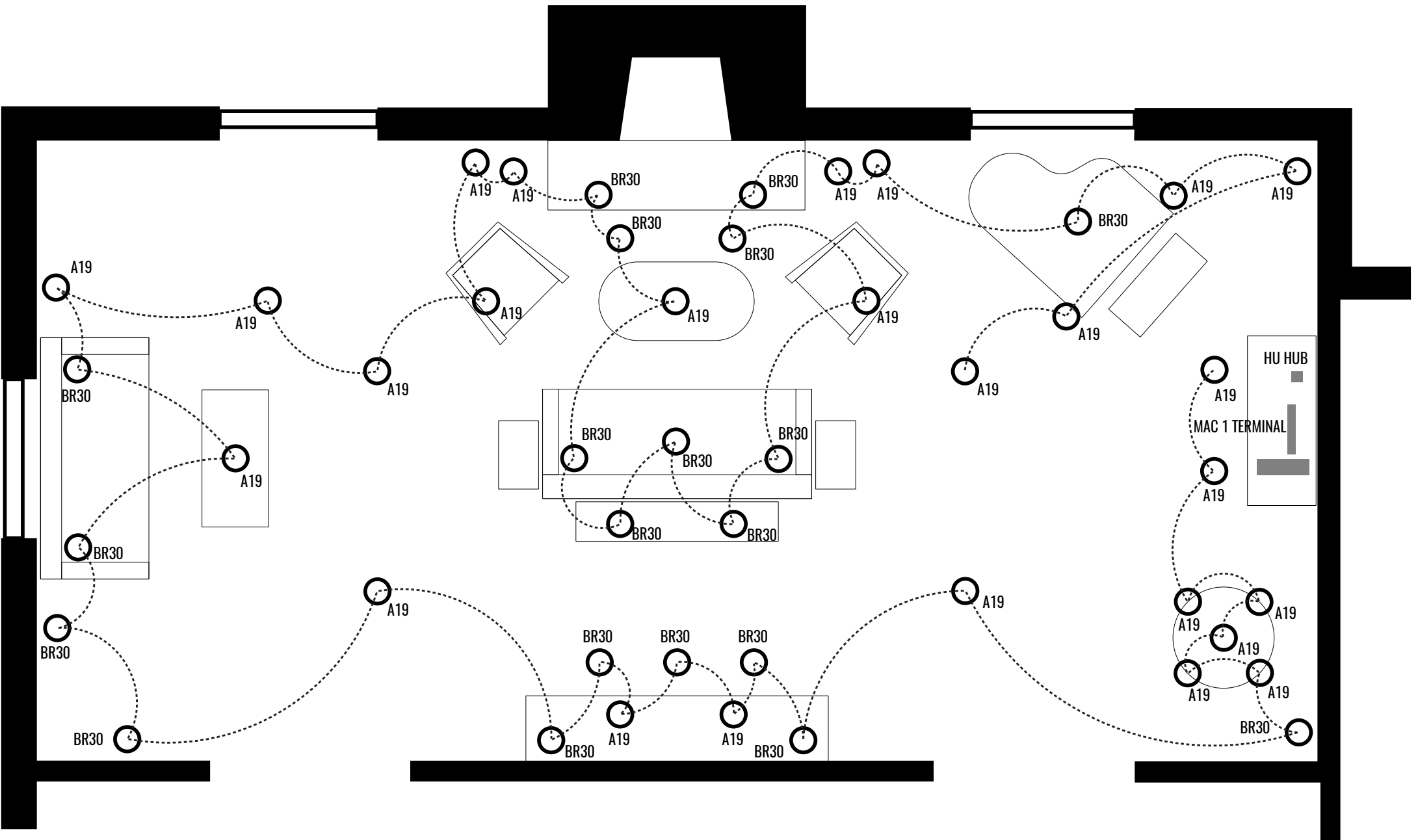
INFORMED (F)LUX



Informed flux is a light based means to interact with an embedded and intelligent environment. The current built environment is layered with sensing capabilities, network communication, and digital interfaces. However, there is still a large gap between the amount of intelligence our environment has, and what it is able to physically do with this information without our direct intervention. This project is a responsive lighting system that will take advantage of computer vision input and machine learning. Informed flux will analyze this data and determine the optimal Hue lighting scene for a given space. It will accomplish this by gathering task specific information, and interpreting the action taking place. Computer vision is an optimal source of data in that it is multi dimensional and rich. Time of day, room occupation, and other edge cases can be perceived by the technology via the ip camera feed.

A person's physical position in a given space provides the means for the software's embedded intelligence. In combination with the internal data of the Hue technology, this modular system can be implemented in any space.

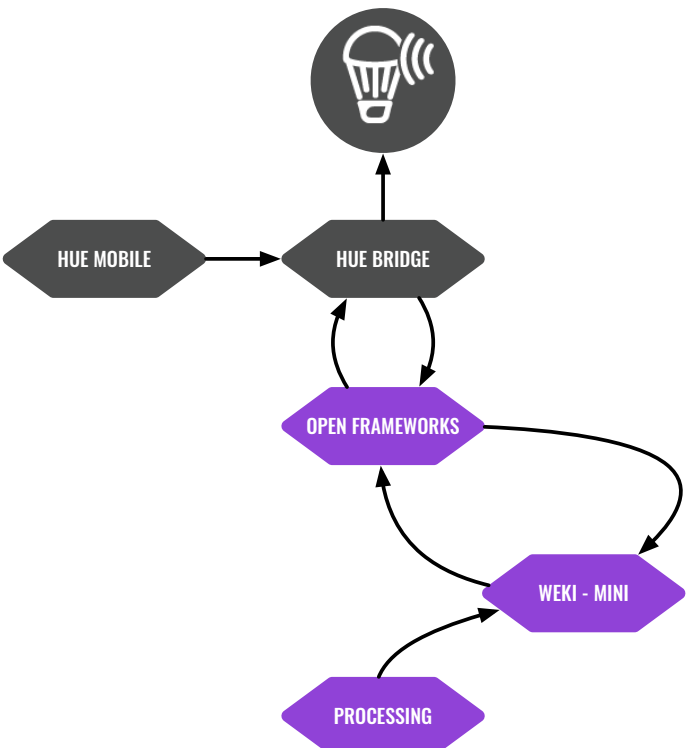
Residential Lighting Plan



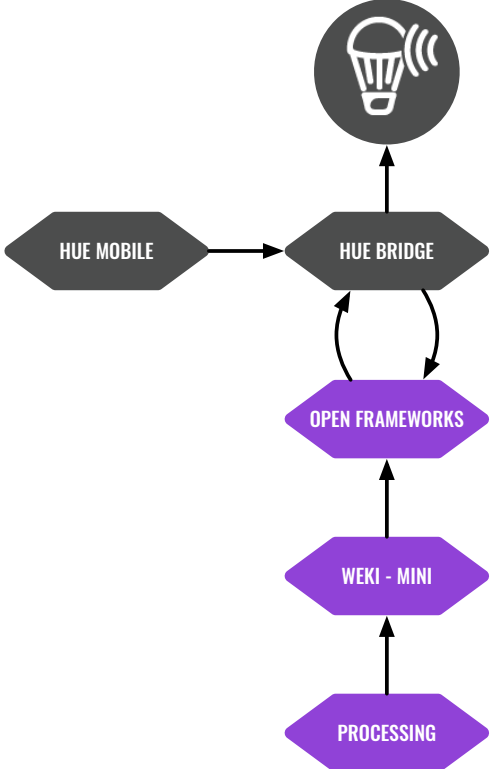
JSON Structure & Syntax

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```

Software -Training Mode



Software -Integration Mode



Low Res Computer Vision

Low resolution imaging is pulled from any available camera feed. The low resolution affords inexpensive computing and nimble data exchange between the of app and weki- mini.

