

Traditional optimization workflows use a 'bottom-up' approach.  
Like that of the NASA ST-5 antenna — where a design space must be defined by the user and then searched by a genetic algorithm or similar optimization function.



**optimize**





**output**



**validate**

**define**

















Dreamcatcher uses a 'top-down' approach. Here, higher level goals are specified. This is the inverted differentiator between design optimization and Dreamcatcher's exploratory design synthesis process.



**generate**

**define**

**explore**

**output**































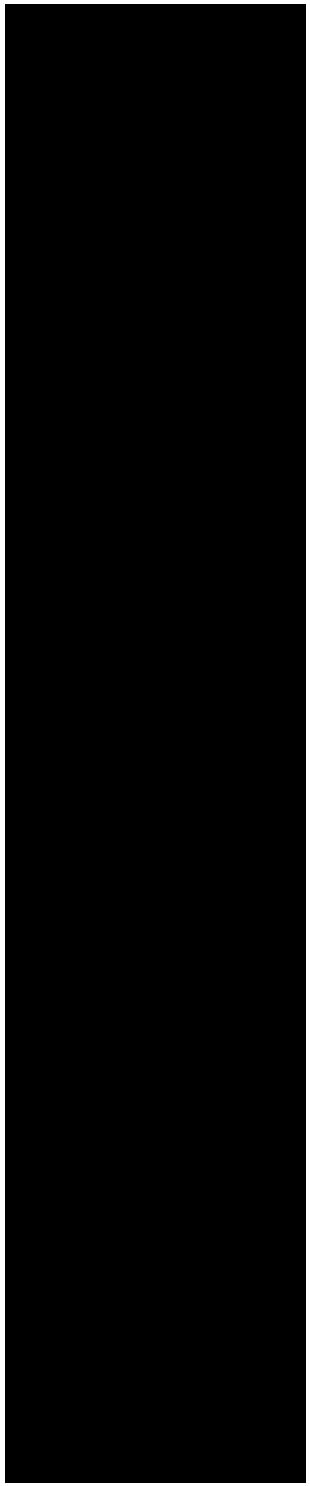


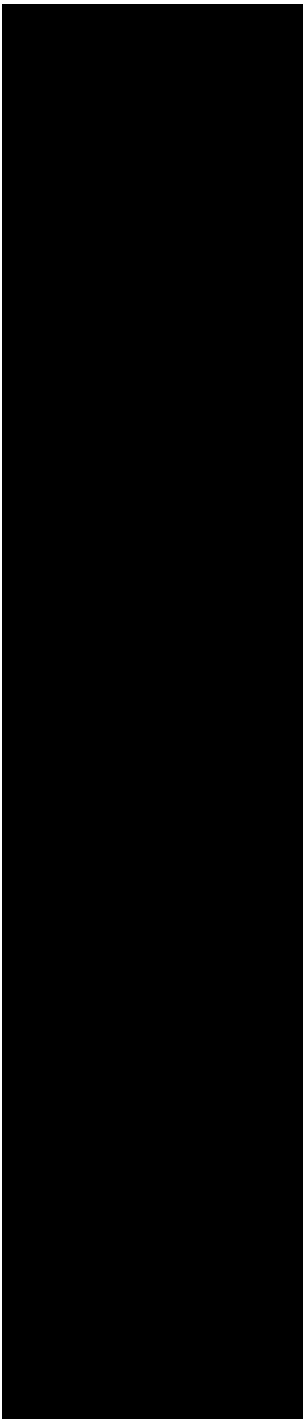














trial and error optimization

behavior-based generation

