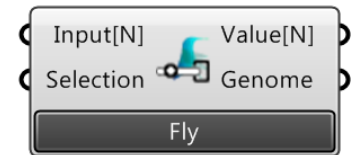
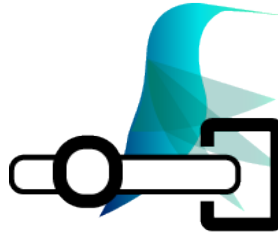


## Basic Iterator

Generates design iterations from a collection of sliders, panels, or valueLists.



## Basic Parameter

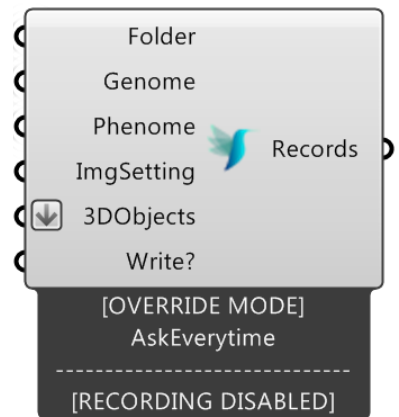
Collects design parameters (us engineer types would call these 'performance metrics') to chart in Design Explorer. These will be the vertical axes to the far right on the parallel coordinates plot, next to the design inputs. These values should describe the characteristics of a single design iteration.

You can also combine this output as a static gene in Genome.



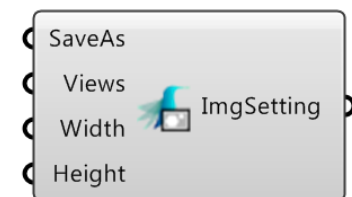
## Basic Aggregator

Aggregates design data, images & Spectacles models into a data.csv file (and corresponding data set that data.csv links to) that Design Explorer can open.



## Advanced Img Setting

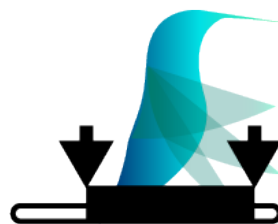
Defines how Colibri generates images during flights. You can specify which viewport[s] to capture, and the resolution of the image.



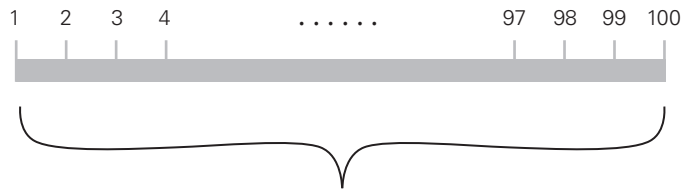
## Advanced Selection

Generates an iteration selection for the Colibri Iterator. This allows you to iterate over a subset of the design space instead of taking every step along every slider/dropdown/panel.

Use 'Divisions' to define granularity - how many steps to take on any given input.  
Use 'Domain' to break the design space up into chunks that can be solved in parallel on different machines.



Basic

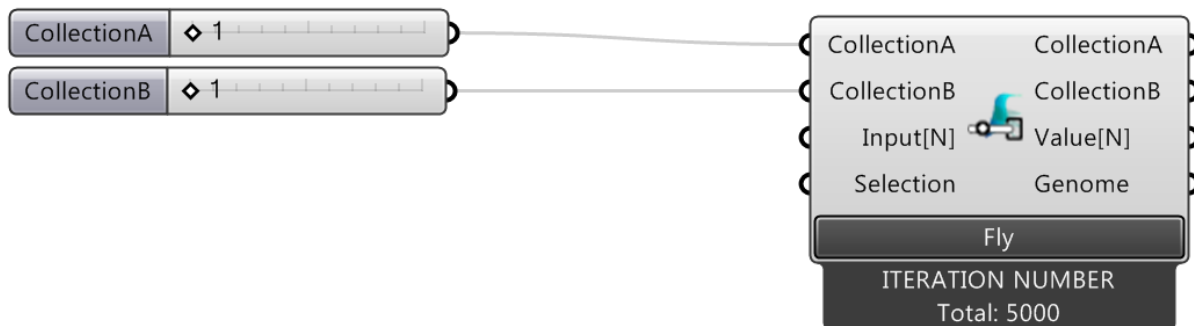


Collection "A"  
100 items

$$100 \times 50 = 5,000 \text{ total Iterations}$$

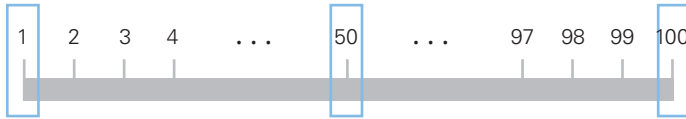


Collection "B"  
50 items

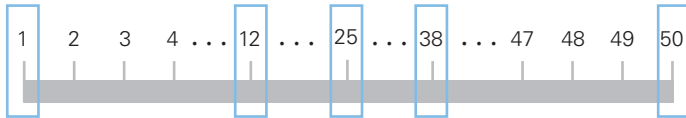




## Selection // Divisions

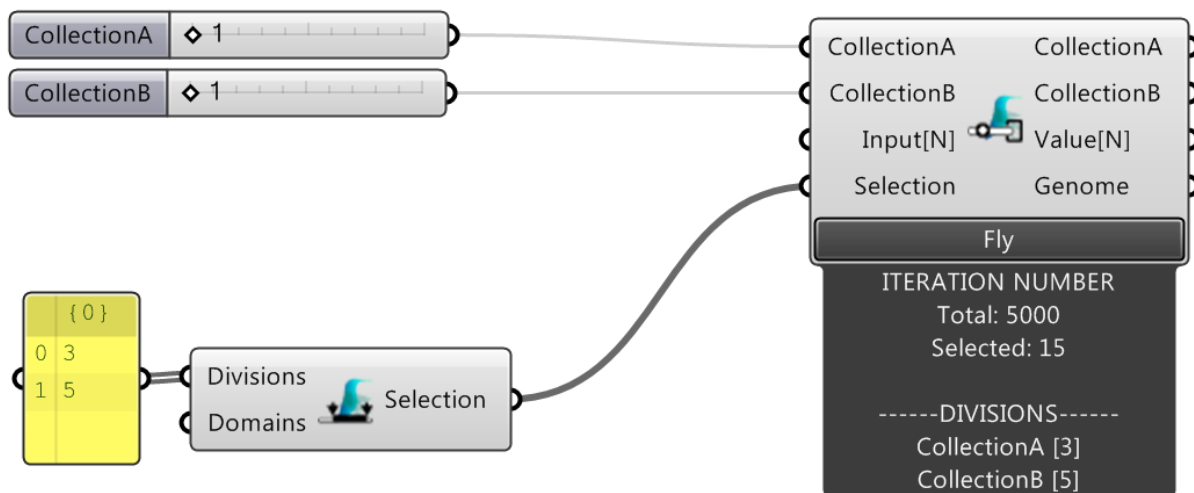


Collection "A"  
100 items  
3 items SELECTED



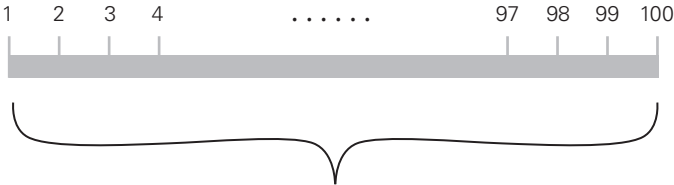
Collection "B"  
50 items  
5 items SELECTED

$$3 \times 5 = 15 \text{ Iterations out of 5,000}$$



Advanced

## Selection // Domains



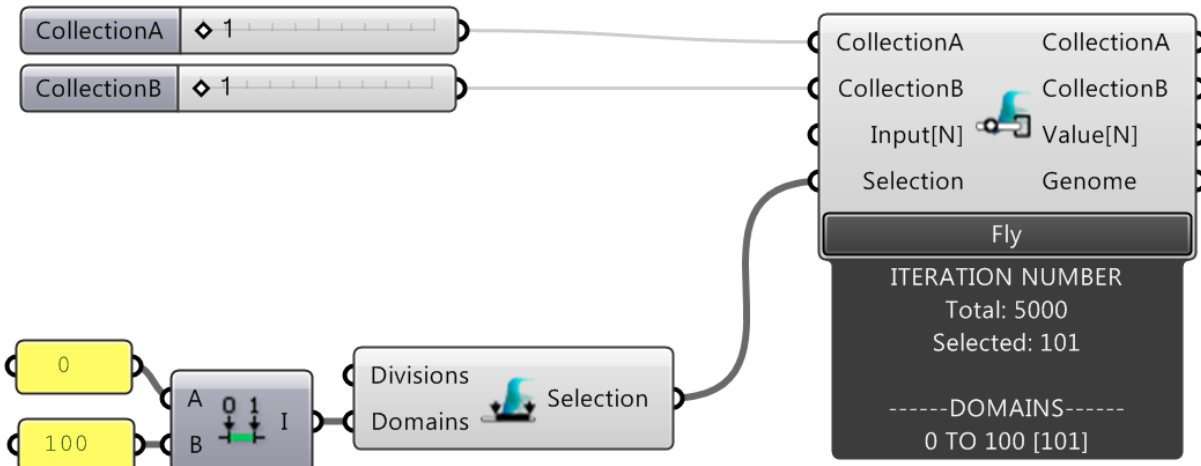
Collection "A"  
100 items

100 x 50 = 5,000 total Iterations

101 SELECTED (index from 0 to 100)  
out of 5,000

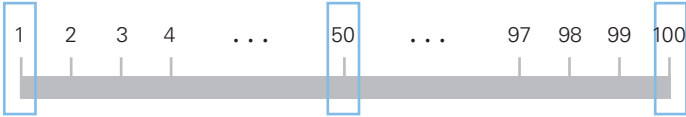


Collection "B"  
50 items

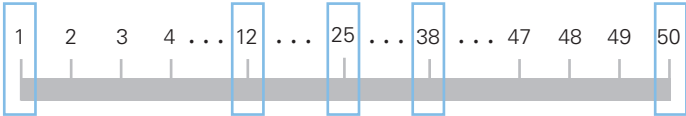


Advanced

## Selection // Divisions + Domains



Collection "A"  
100 items  
3 items **SELECTED**



Collection "B"  
50 items  
5 items **SELECTED**

3 x 5 = 15 Iterations  
out of 5,000

11 SELECTED (index from 0 to 10)  
out of 15

