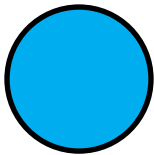
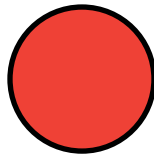


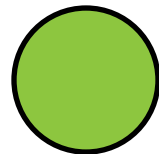
Notebook



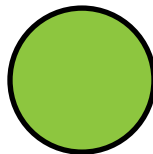
Controller



Engines



$f(1)$



$f(2)$

```
rc = view.map_sync(f, xrange(10))
```

Map operation gives rise to a set of jobs identified by message id

```
123-456-789 → (1, f)  
456-827-157 → (2, f)  
...
```

Jobs are sent to the cluster controller which distributes them to engines and waits for results

```
123-456-789 →  
456-827-157 →  
...
```

As results come in they are recorded against the corresponding message id

42

```
25  
42  
...
```

Completed results are shipped back to the client and returned to the blocked caller