

## Ruby REPL

```
> array[Int].filter { |x| x.even? }[Fixnum]
```

Receive: [Int]

Transfer array's object  
pointers via DMA

Enqueue parallel  
bitshift task to convert to  
integer representation

Return device singleton

Receive [Fixnum]

Enqueue parallel bitshift  
task to convert to Ruby  
Fixnums from Integers

Examine enqueued tasks  
and simplify (using Map-  
Fusion etc)

Dispatch OpenCL tasks

Retrieve array's object  
pointers via DMA

Return Ruby datatype

## Ruby REPL

```
# => [2, 4, 6, 8]
```

Receive: map &block / filter &block

Obtain RubyVM bytecode  
sequence of supplied  
anonymous function via  
reflection

Parse bytecode and generate  
equivalent OpenCL kernel

Enqueue parallel kernel to  
perform task