Functors, std::functions

Krishna Kumar

Functors

- A functor is pretty much just a class or a struct which defines the operator(). That lets you create objects which "look like" a function.

- One is that unlike regular functions, they can contain state.

```
class Multiplier { //functor classs

double y;

  public:

- Multiplier(double y): y{y}{};

    double operator()(double x) { return x * y;}

}

Multiplier doubler{2}; // Initialize

double x = doubler(5);
```