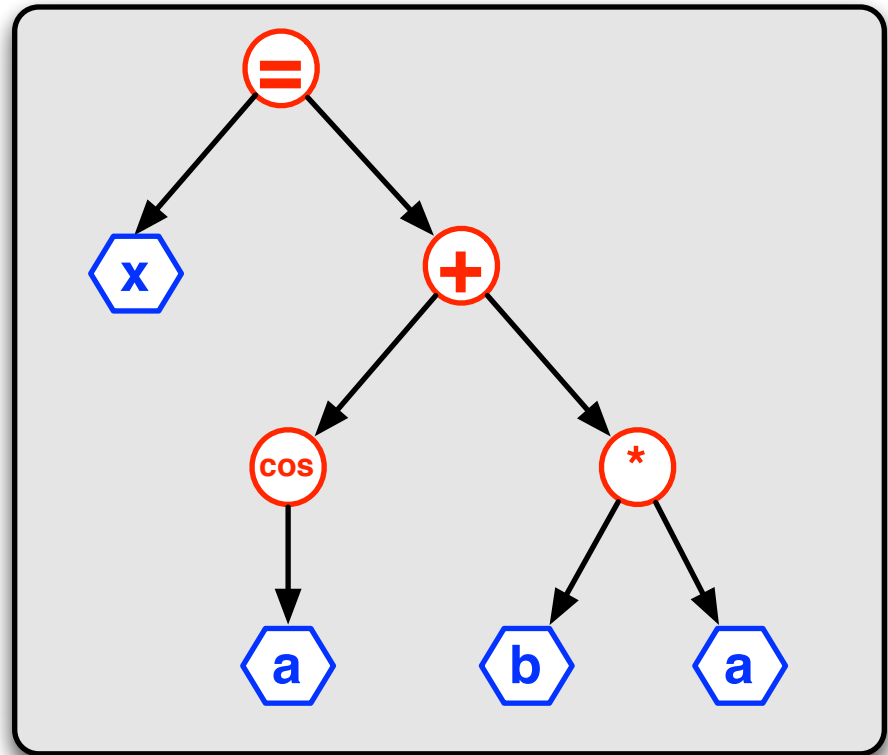


```
matrix x(h,w),a(h,w),b(h,w);  
x = cos(a) + (b*a);
```

```
expr<assign  
  ,expr<matrix>  
  ,expr<plus  
    ,expr<cos  
      ,expr<matrix>  
    >  
    ,expr<multiplies  
      ,expr<matrix>  
      ,expr<matrix>  
    >  
>(x,a,b);
```

Arbitrary Transforms applied  
on the meta-AST



```
#pragma omp parallel for  
for(int j=0;j<h;++j)  
{  
  for(int i=0;i<w;++i)  
  {  
    x(j,i) = cos(a(j,i))  
            + ( b(j,i)  
                * a(j,i)  
              );  
  }  
}
```