

The Evolution of Language

$2x$ (Descartes)

$\lambda x. 2x$ (Church)

(LAMBDA (X) (* 2 X)) (McCarthy)

```
<?xml version="1.0"?>
<LAMBDA-TERM>
  <VAR-LIST>
    <VAR>X</VAR>
  </VAR-LIST>
  <EXPR>
    <APPLICATION>
      <EXPR><CONST>*</CONST></EXPR> (W3C)
      <ARGUMENT-LIST>
        <EXPR><CONST>2</CONST></EXPR>
        <EXPR><VAR>X</VAR></EXPR>
      </ARGUMENT-LIST>
    </APPLICATION>
  </EXPR>
</LAMBDA-TERM>
```