

Plan for Today

Partners

Compilers, Interpreters, and hybrid compilers

General approach to solving problems in CS

Lexing/Scanning for MiniSVG

- Why perform lexical analysis?
- single token recognition
- multiple token recognition
- implementation issues

Next time

- more regular expressions and DFAs for MiniSVG

SVG Renderer

```
<svg xmlns="http://www.w3.org/2000/svg">
  <!-- rectangles -->
  <rect x="20" y="20" width="300" height="250" fill="red" />
  <rect x="30" y="20" width="300" height="250" fill="blue" />
  <rect x="40" y="20" width="300" height="250" fill="green" />

  <!-- white circle on top of rectangles -->
  <circle cx="120" cy="150" r="60" fill="white" />

  <!-- black diagonal line -->
  <line x1="0" y1="0" x2="300" y2="300" stroke="black" />
</svg>
```