

Getting Started

- \$ ruby parser.rb -f rd.xml
- -f option specifies input xml file
- Optional -o option specifies output html file containing svg graphics

XML input

- Nested hierarchies
- Road, street, and avenue types
- Specifiable attributes:
 - Intersection-radius
 - Angle-offset
 - Intersectino-offset
 - Length of link

```
<?xml version="1.0" encoding="UTF-8"?>
<network intersection-radius="100">
  <avenue>
  </avenue>
  <road intersection-offset="180" angle-offset="-20" intersection-radius="20">
    <road>
    </road>
    <street>
    </street>
  </road>
  <road>
  </road>
  <road>
      <street>
      </street>
      <street length="400" >
       <road>
        </road>
        <road>
       </road>
      </street>
      <street>
      </street>
  </road>
  <street>
  </street>
</network>
```

How it Works

- Descends XML file recursively, drawing svg objects as it parses
- Uses Nokogiri to parse XML and create final HTML file

```
require 'rubygems'
   require 'bundler/setup'
   require 'nokogiri'
   require 'optparse'
   require 'solid_assert'
   SolidAssert.enable_assertions
   options = {}
   optparse = OptionParser.new do |opts|
     opts.banner = "Usage: parser.rb -f <xml filename> [ -o <output filename> ]"
     opts.on('-f', '-x', '--xml input-filename', 'XML file name') { |v|
     options[:filename] = v }
     opts.on('-o', '-h', '--html output-filename', 'HTML file name') { |v|
     options[:output] = v }
   end
0 begin
     optparse.parse!
     mandatory = [:filename]
     missing = mandatory.select{ |param| options[param].nil? }
```

SVG Output

Roadnet: XML to SVG road networks converter