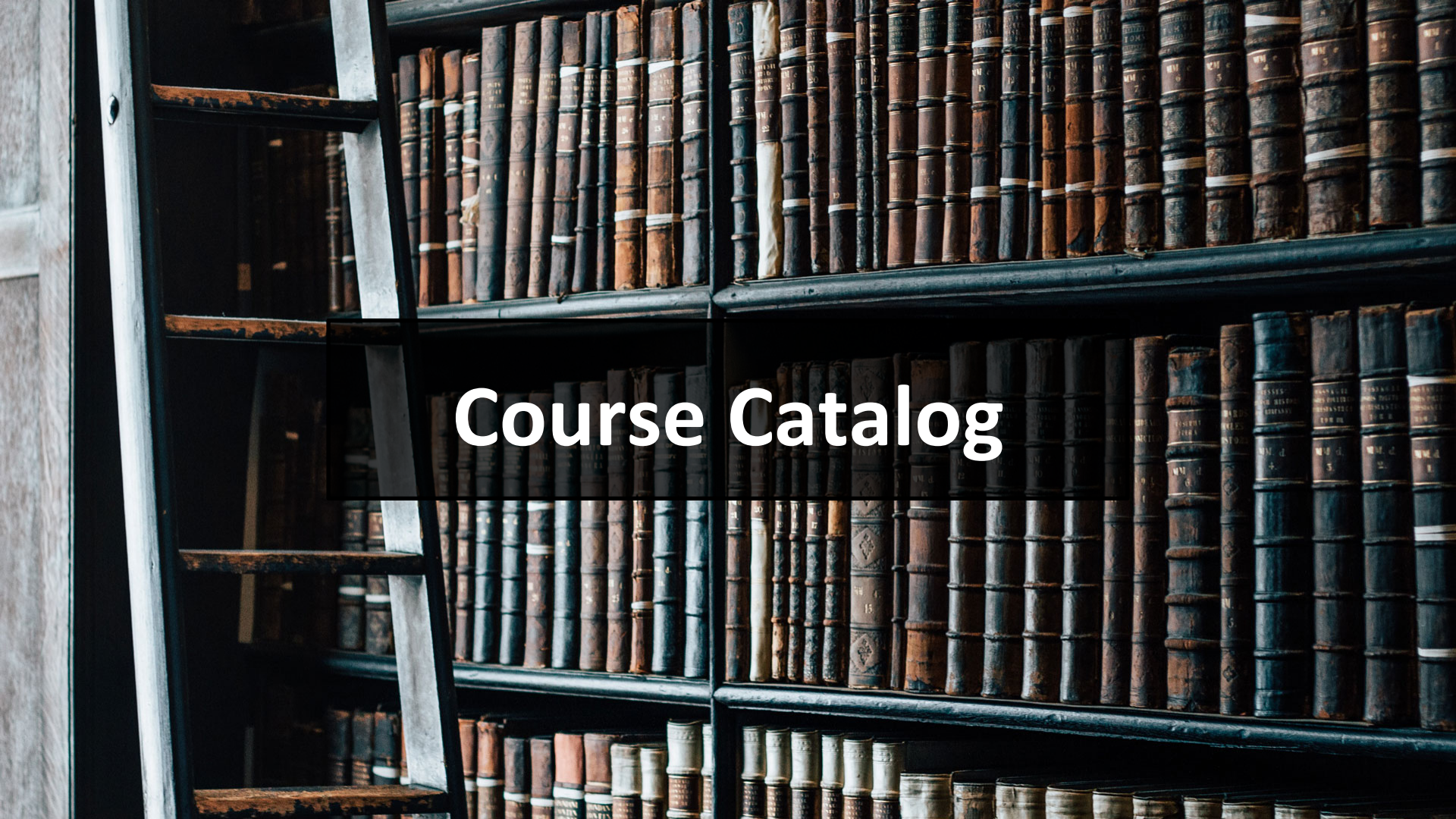
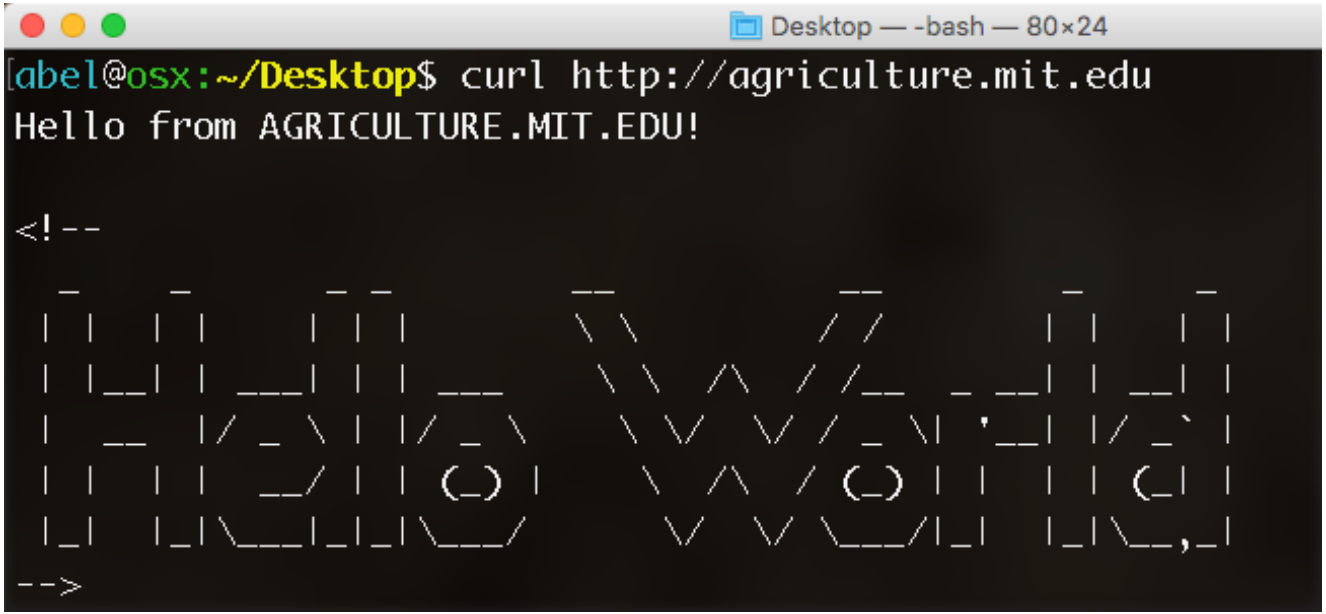

Course Catalog

curl

http://agriculture.mit.edu

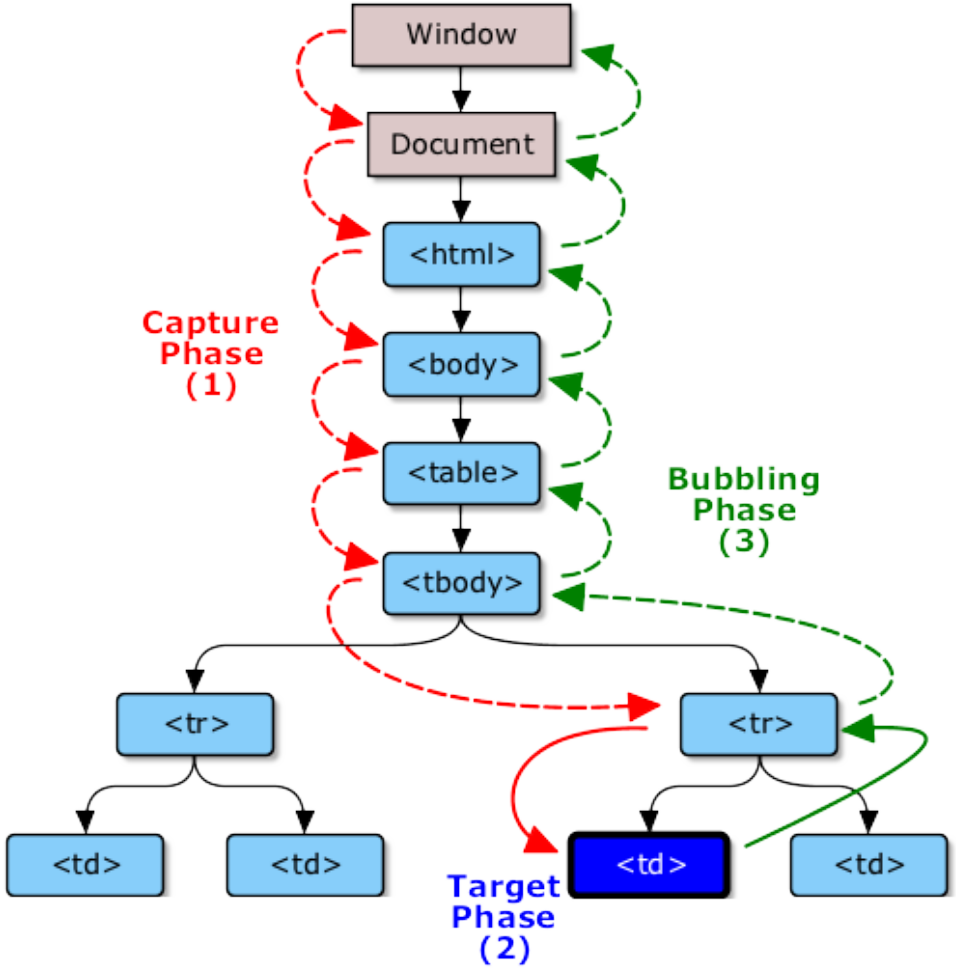


Curl or Request

What do you do?

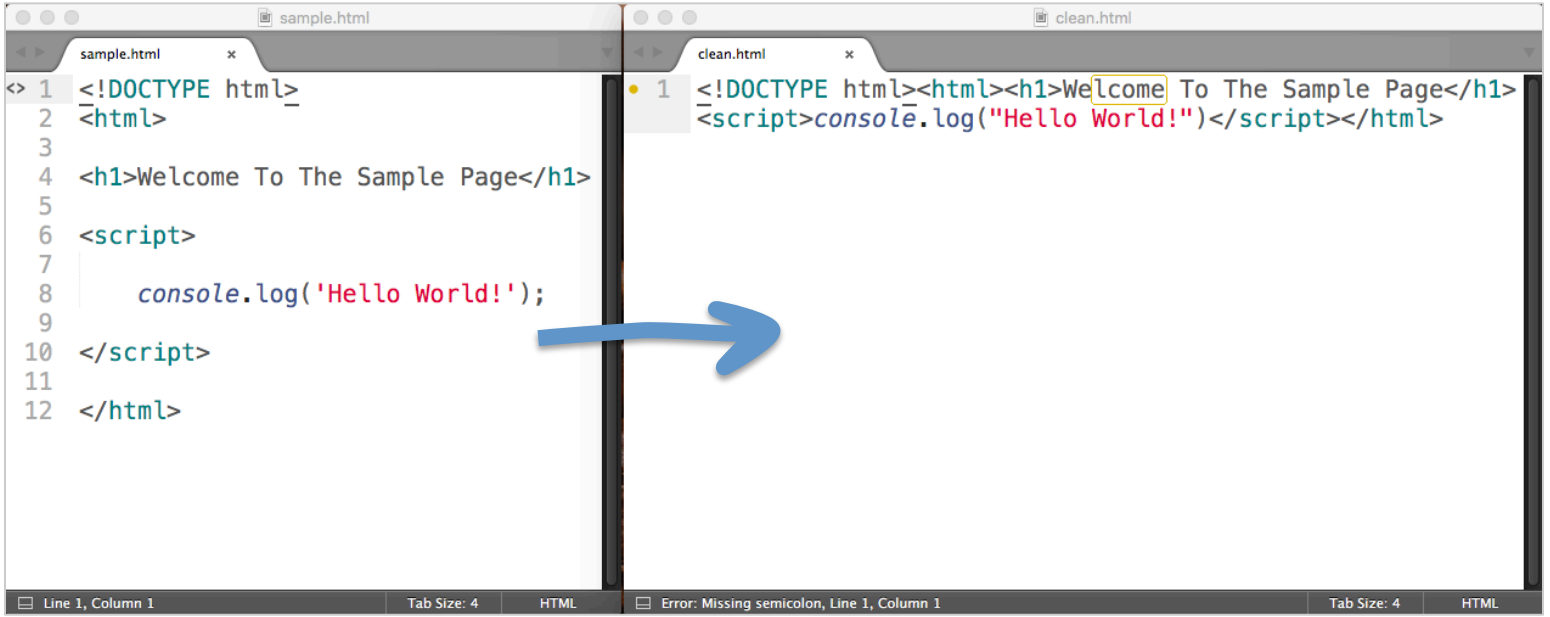
```
<p><h3>1.00 Engineering Computation and Data Science
<br><img alt="_____" src="/icns/hr.gif"></h3>
<img width=16 height=16 align="bottom" alt="Undergrad" title="Undergrad" src="/icns/under.gif">  (<img width=16 height=16 align="bottom"
alt="Spring" title="Spring" src="/icns/spring.gif">) <img src="/icns/rest.gif" alt="Rest Elec in Sci & Tech" title="Rest Elec in Sci & Tech"
width="16" height="16" align="bottom">
<br>(Subject meets with <A HREF="m1a.html#1.001">1.001</A>)
<br>Prereq: <a href="./search.cgi?search=&cred=m1" title="18.01, 18.01A, 18.014">Calculus I (GIR)</a>
<br>Units: 5-1-6
<br><img alt="_____" src="/icns/hr.gif">
<br>
<a name="1.000"></a>
<p><h3>1.000 Computer Programming for Scientific and Engineering Applications
<br><img alt="_____" src="/icns/hr.gif"></h3>
<img width=16 height=16 align="bottom" alt="Undergrad" title="Undergrad" src="/icns/under.gif">  (<img width=16 height=16 align="bottom"
alt="Fall" title="Fall" src="/icns/fall.gif">) <img src="/icns/rest.gif" alt="Rest Elec in Sci & Tech" title="Rest Elec in Sci & Tech" width="16"
height="16" align="bottom">
<br>Prereq: None. <I>Coreq: <a href="m18a.html#18.03">18.03</a></I>
<br>Units: 3-2-7
<br><b>Lecture:</b> <i>MWF3-4.30</i> (<a href="http://whereis.mit.edu/map-jpg?mapterms=5">5-233</a>) <b>Lab:</b> <i>TBA</i> <i><b>+final</b></i>
<!--s-->
<br><img alt="_____" src="/icns/hr.gif">
<br>Presents the fundamentals of computing and computer programming (procedural and object-oriented programming) in an engineering context.
Introduces logical operations, floating-point arithmetic, data structures, induction, iteration, and recursion. Computational methods for
interpolation, regression, root finding, sorting, searching, and the solution of linear systems of equations and ordinary differential equations.
Control of sensors and visualization of scientific data. Draws examples from engineering and scientific applications. Students use the MATLAB
programming environment to complete weekly assignments.
<br><I>R. Juanes</I><br>No textbook information available
</p><!--end-->
<a name="1.001"></a>
<h3>1.001 Engineering Computation and Data Science
<br><img alt="_____" src="/icns/hr.gif"></h3>
<img width=16 height=16 align="bottom" alt="Graduate" title="Graduate" src="/icns/grad.gif">  (<img width=16 height=16 align="bottom"
alt="Spring" title="Spring" src="/icns/spring.gif">)
<br>(Subject meets with <A HREF="m1a.html#1.00">1.00</A>)
<br>Prereq: <a href="./search.cgi?search=&cred=m1" title="18.01, 18.01A, 18.014">Calculus I (GIR)</a>
<br>Units: 5-1-6
<br><img alt="_____" src="/icns/hr.gif">
<br>Presents fundamentals of computing and programming in an engineering context with an emphasis on data science. Introduces basics of web
computing, data structures, and techniques for data analysis. Includes filtering, linear regression, simple machine learning (clustering and
classifiers), and visualization. Surveys techniques for ingesting, processing, analyzing, and visualizing engineering data from a range of
fields, including geo-spatial, environment, infrastructure, city dynamics, and numerical experiments. Students use JavaScript and HTML5
```

DOM


Window
Document
<html>
<body>
<table>
<tbody>
<tr>
<tr>
<td>
<td>
<td>
<td>
Capture Phase (1)
Bubbling Phase (3)
Target Phase (2)

You need to remove whitespace

- You can use NPM package *html-minifier*



10 Steps

1.- Curl or Request

2.- Remove Whitespace

3.- Additional Cleaning

4.- Parse

5.- Get Courses

6.- Get Titles

7.- Scrub Titles

8.- Word Arrays

9.- Flatten Arrays

10.- Word Frequency