

Fun, Free and Functional

Tools Used in Recent APS Projects

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PACSCL
From Project to Plan to Program
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JS InfoVis Toolkit

Interactive data visualization.

(<http://philogb.github.io/jit/>)

Example Project:

Joining the Fray: Mapping a World of Paine

(<https://diglib.amphilsoc.org/labs/join-the-fray/>)

Showing Relationships

```
29 function init() {
30     //init data
31     var json = {
32         id: "190_0",
33         name: "Thomas Paine",
34         //All of the following are children of Thomas Paine
35         children: [
36             {
37                 id: "Aitken",
38                 name: "Robert<br />Aitken",
39                 data: {
40                     relation: "<h2>Robert Aitken, 1735-1802</h2><br /><div class='bio-text'>The Sc
41                     <strong>Thomas Paine</strong> to serve as editor of his <em>Pennsylvania Magaz
42                     wide variety of content. Paine contributed regularly to the magazine during hi
43                     printer to the Continental Congress. He was the first American publisher to pr
44                     for his fine binding work and he produced numerous volumes for clients that in
45                     family enterprise was eventually successfully carried on by his prolific daugh
46                     class='bio-text'><ul><li><a href='http://www.amphilsoc.org/collections/view?d
47                 },
48                 children: []
49             }, { //Edmund Burke
50                 id: "Burke",
51                 name: "Edmund<br /> Burke",
52                 data: {
53                     relation: "<h2>Edmund Burke, 1729-1797</h2><br /><div class='bio-text'>Writer
54                     the first to attack the French Revolution as a threat to all established gover
55                     Societies in London Relative to that Event</em></strong> (1790). Ostensibly a
56                     Price</strong><em>A Discourse on the Love of Our Country</em>
57                     France, Burke's work alienated him from many. As the French Revolution became
58                     a standard for conservative thought.<br /><br />Radicals of all stripes took a
59                     many others, <strong>Mary Wollstonecraft</strong> and <strong>Thomas Paine</st
60                     Edmund Burke:</h3> <div class='bio-text'><figure><a href='http://diglib.amphil
61                     http://diglib.amphilsoc.org/islandora/object/graphics%3A7668/datastream/TN/vie
62                     href='http://diglib.amphilsoc.org/islandora/object/graphics:7556/' target='new'
63                     '></a><figcaption>Burke grouped with members of Whig party</figcaption></figur
64                     target='new'><img src='http://diglib.amphilsoc.org/islandora/object/graphics:7
65                     the House of Commons. A dog, partly covered by a scroll, barks.</figcaption></
66                     target='new'><img src='http://diglib.amphilsoc.org/islandora/object/text:13596
67                     Paine's Rights of Man, contrasted with Burke's Reflections on the Revolution i
68                     http://diglib.amphilsoc.org/islandora/search/Burke%2C%20Edmund%2C%201729-1797?
69                 },
70                 children: []
71             }, { //Joseph Priestley
72                 id: "Priestley",
73                 name: "Joseph<br /> Priestley",
74                 data: {
75                     relation: "<h2>Joseph Priestley, 1733-1804</h2><div class='bio-text'>Natural s
```

- Relations are built through JSON file;
- Relatively easy to build.

Chart.JS

Interactive charts

(<http://www.chartjs.org/>)

Example Charts

(I don't actually have a live project using this just now. I put up dummy charts for the talk, but will have to take those back down.)

Charting Data


```
<script>
```

```
var doughnutData = [  
  {  
    value: 3,  
    color: "#cc6699",  
    highlight: "#cc6699",  
    label: "Assault and Batt  
  },  
  {  
    value: 1,  
    color: "#cc6666",  
    highlight: "#cc6666",  
    label: "Buggery"  
  },  
  {  
    value: 17,  
    color: "#cc9966",  
    highlight: "#cc9966",  
    label: "Burglary"  
  },  
  {  
    value: 2,  
    color: "#cccc66",  
    highlight: "#cccc66",  
    label: "Conspiracy to De  
  },  
  {  
    value: 5,  
    color: "#99cc66",  
    highlight: "#99cc66",  
    label: "Counterfeiting"  
  },  
  {  
    value: 1,  
    color: "#66cc66",  
    highlight: "#66cc66",  
    label: "Disorderly House  
  },  
  {  
    value: 4,  
    color: "#66cc99"
```

Data defined for
the donut chart



Data defined for
the bar chart



```
<script>
```

```
var randomScalingFactor = function() { return Math.round(Math.random()*100)};  
  
var barChartData = {  
  labels : ["1830","1831","1832","1833","1834","1835","1836","1837","1838","1839"],  
  datasets : [  
    {  
      fillColor : "rgba(102, 0, 51,0.5)",  
      strokeColor : "rgba(102, 0, 51,0.8)",  
      highlightFill: "rgba(102, 0, 51,0.75)",  
      highlightStroke: "rgba(102, 0, 51,1)",  
      data : [5, 0, 0, 3, 14, 39, 69, 126, 171, 83]  
    }  
  ]  
}  
  
window.onload = function() {  
  var ctx = document.getElementById("canvas-1").getContext("2d");  
  window.myBar = new Chart(ctx).Bar(barChartData, {  
    responsive : true  
  });  
}
```

HTML5 Up

Because, come on, let's just let other people design beautiful web templates for us

(<http://html5up.net/>)

Example Project:

Too Near Where History is Happening

(<https://diglib.amphilsoc.org/labs/houston/>)

Bringing It All Together

- ◉ HTML 5, CSS 3, jQuery all compiled;
- ◉ Add other tools, photos, etc. to template

That Was Way Too Fast

There's always way more to say about all of this. If you're interested in hearing more, or passing along your own suggestions:

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