Other Vis Tools

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Some slides borrowed from Vadim Ogievetsky, Stanford
Vis without programming

iVisDesigner

Lyra / Vega
Vis programming: Qt

-QtDesigner
Vis programming: Qt

- QtDesigner
- QGraphicsView
  (feels a lot like Processing!)
- QWebView
  (can embed D3!)
Vis programming: Qt

- QtDesigner
- QGraphicsView (feels a lot like Processing!)
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C++, but has other language bindings (Python: pyside)
Vis programming: Python
-pyside
Vis programming: Python
- pyside
- PyGame
Vis programming: Python

- pyside

-PyGame

-tkinter
Vis programming: Python
- pyside
- PyGame
- tkinter
- tangelo
Vis programming: D3
Vis programming: D3

- Why didn’t we use it for the class?
Vis programming: D3
- Why didn’t we use it for the class?

Web technologies
Vis programming: D3

- Why didn't we use it for the class?

HTML

Web technologies
Vis programming: D3

- Why didn't we use it for the class?

HTML    SVG

Web technologies
Vis programming: D3

- Why didn't we use it for the class?

**HTML**
**SVG**
**XML namespace nuances...**

*Web technologies*
Vis programming: D3

- Why didn't we use it for the class?

HTML  SVG  XML namespace nuances...

Web technologies  CSS
Vis programming: D3

- Why didn't we use it for the class?

**Web technologies**

- HTML
- SVG
- XML namespace nuances...
- CSS
- client vs. server crap...
Vis programming: D3

- Why didn't we use it for the class?

**Web technologies**

- HTML
- SVG
- CSS
- XML namespace nuances...
- client vs. server crap...
- php
Vis programming: D3

- Why didn't we use it for the class?

HTML
SVG
XML namespace nuances...

Web technologies

CSS

client vs. server crap...
php
python (tangelo, cherryPy, django...)
Vis programming: D3

- Why didn't we use it for the class?

**Web technologies**

- HTML
- SVG
- CSS
- XML namespace nuances...
- client vs. server crap...
- php
- python (tangelo, cherryPy, django...)
- Dropbox
Vis programming: D3
- Why didn’t we use it for the class?

Web technologies

- HTML
- SVG
- XML namespace nuances...
- CSS
- Python (tangelo, cherryPy, django...)
- Dropbox

deep understanding of javascript

client vs. server crap...

php
Vis programming: D3

The Document Object Model (DOM)

```html
<div id="bill" class="cool">
    <span>Hi, there!</span>
</div>
```

Tree of tags with attributes

Check out developer tools...
<div id="bill" class="cool">
  <span>Hi, there!</span>
</div>

<style>
  .cool { color: #f00ba4; }
</style>
Vis programming: D3

CSS selectors

```html
<div id="bill" class="cool">
  <span>Hi, there!</span>
</div>
```

```css
.cool { color: #f0b4a4; }
```
Vis programming: D3

D3 selections

Interactive D3 Intro
http://vadim.ogievetsky.com/IntroD3/#7
update vs enter() vs exit()

these are **separate** D3 selections!

http://vadim.ogievetsky.com/IntroD3/#35
D3: Lots of built-in goodies

- transitions
- scales (color, spatial)
- geography
- time
- layout algorithms
- interaction
Hanpuku:

$D_3 + $Illustrator!