

HUDK 4050: CORE METHODS IN EDM

<http://bit.ly/HUDK405019-TEST>

In the news



Solving these 5 issues will make education AR/VR go mainstream

Dropout rates soar in Brazil's tech higher education



Under AI's Watchful Eye, China Wants to Raise Smarter Students


How AI is transforming education and skills development



Events

Title	Date - Time	Location
Machine Learning for Scientific Inference	10/9 - 5:00pm	Davis Auditorium
<u>Cornell Tech: Day of Data</u>	10/15	Cornell Tech
Chip Paucek, Co-Founder of 2U	10/17 - 5:00pm	Low Library 207
<u>Data Science Institute Fall Scholars Programs</u>	Deadline: 10/21	
Where on Earth is AI Headed?	10/25 - 2:00pm	Davis Auditorium
<u>Robotics to Retrain & Restore Human Movements</u>	11/1 - 12:00pm	NWB Rm 1406

Update a Github Fork

Public  **iolufemi / responsive-nav.js**
forked from viljamis/responsive-nav.js

Responsive navigation plugin without library dependencies and with fast touch screen support.
<http://responsive-nav.com> — Edit

307 commits 4 branches 21 releases 8 contributors

branch: master responsive-nav.js / +

Updates version
viljamis authored 9 months ago latest commit cb0e91a74e

demos remove tabIndex option from demos/advanced, demo was not working 9 months ago

.gitignore Adds gitignore 10 months ago

Compare

There isn't anything to compare.
viljamis:master is up to date with all commits from iolufemi:master. Try switching the base for your comparison.

Create pull request Discuss and review the changes in this comparison with others.

Commits 84 Files changed 75 Commit comments 0 10 contributors

Commits on Sep 07, 2014

- gionkunz Added code mirror editor and base64 atob / btoa shim 483a938
- gionkunz Added helpers for examples f3a2c6c
- gionkunz Added chartist code mirror theme and changed white 6937508
- gionkunz Added live-example and example generic handler with base64 decode and... cba90d8
- gionkunz Added example charts to be used by the new function eval method d45c674
- gionkunz Added new live examples and refactored examples on index page, fixes ... 0ee0518
- gionkunz Fixed paths issues with bower and usemin 7850b8f
- gionkunz GA require displayfeatures on documentation site 7ead568
- gionkunz Rendering critical css into inline style for performance optimization 511976b
- gionkunz Added google webfont loader and use it for google fonts and fontaweso... 86c3650
- gionkunz Removed gradient styles for front page background 7e3855d
- gionkunz Added better default value handling for icon module ff696e3
- gionkunz Removed font-awesome dependency as we are using a CDN e0dedb4
- gionkunz Need to use an artificially high value for critical height as we need ... cac4ab7

Commits on Sep 09, 2014

- CalebKester Matching responsive containers with documentation ... c8ea2e7
- CalebKester Adding in square as it was in the sourcecode 3265277
- gionkunz Added custom XML Namespace to create chartist attributes on SVG eleme... d1b9293
- gionkunz Code refactored as first isolated step is no longer required so we ca... 8757059
- gionkunz Fixed bug that text attribute is getting added to pie chart labels 3ca7a60
- gionkunz Added option to insert nodes as first child element instead of last a... db11acf
- gionkunz Merge pull request #33 from CalebKester/develop 5983a26

Commits on Sep 10, 2014

- gionkunz The line should actually be behind the dots f4f648d
- gionkunz Refactored example eval method 61da8c3
- gionkunz Using example specific styles from a separate scss file d2f581d

iGraph

iGraph

- Generate a random graph:

```
g <- sample_gnp(10, 0.5, directed = FALSE, loops = FALSE)
```

- Print the details of the graph:

g

**Undirected/Directed, N = named vertices,
W = weighted edges, B = bipartite graph**

**Number of vertices,
number of edges**

```
IGRAPH e5bd4b9 U-- 10 92 -- Erdos renyi (gnp) graph
+ attr: name (g/c), type (g/c), loops (g/l), p (g/n)
+ edges from e5bd4b9:
[1] 1-- 3 2-- 3 2-- 4 3-- 4 3-- 6 4-- 6 4-- 7
```

iGraph

Data Structures

- Adjacency Matrix

	A	B	C
A		1	0
B	1		0
C	0	1	

To-From + Vertex Attributes

From	To	ID	Age
A	B	A	10
B	C	B	11
C	A	C	10

Plotting

- plot
- tkcl
- rggl

Adjacency & Vertex/Edge List

```
V(g)$label.cex <- 2.2 * V(g)$degree / max(V(g)$degree) + .2
```

Vertex/Edge List Only

```
plot(g, layout=layout,  
      vertex.color= D8$cols,  
      vertex.label = NA,  
      vertex.size = 3,  
      edge.width=0.02,  
      vertex.frame.color=NA)
```

Matrix Multiplication

	C1	C2	C3
A	0	1	0
B	1	1	1
C	0	0	1

$0\% * 0\%$

	A	B	C
C1	0	1	0
C2	1	1	0
C3	0	1	1

$0 \times 0 + 1 \times 1 + 0 \times 0$

	A	B	C
A	1	1	0
B	1	3	1
C	0	1	1