HIDK 4()5():

Vectr:

In the news

Elliot Hu-Au Dristi Adhikari Meijuan Zeng Yueyun Gu

THE IMPACT LEARNING ANALYTICS IS HAVING ON HIGHER EDUCATION

Northeastern University

Graduate Programs

HOW ARTIFICIAL INTELLIGENCE IS REVOLUTIONIZING EARLY CHILDHOOD EDUCATION



Microsoft's Dan Ayoub Explains How AR/VR Can
Produce Measurable Results in Learning edtechtimes



Anthropologist Mimi Ito: Good Intentions Don't Always Mean Equitable Outcomes in Edtech

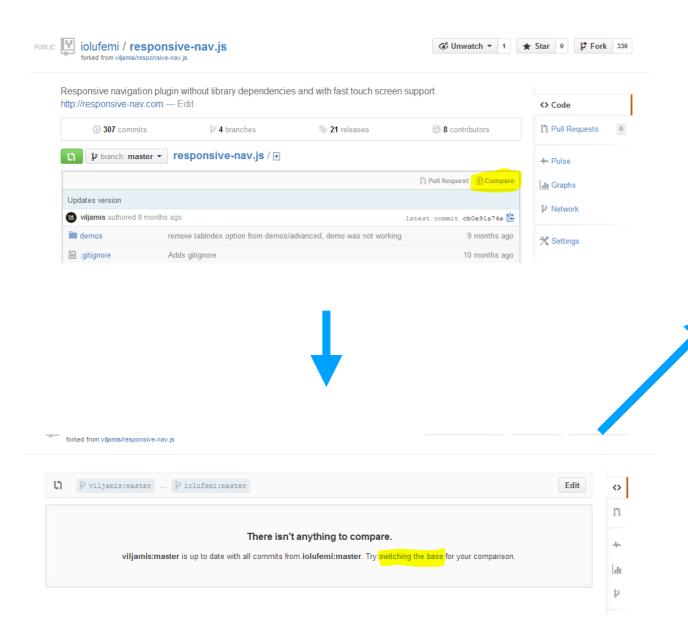


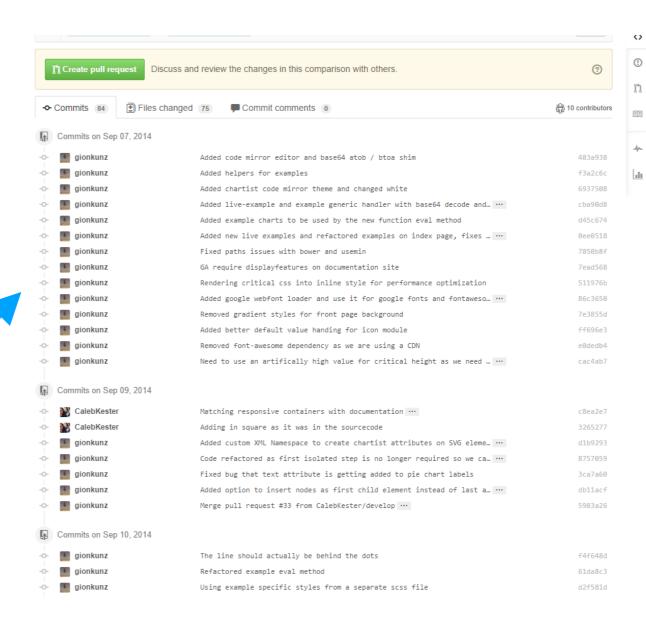
Palm's Weird New Tiny Smartphone Sidekick Says Something Sad About Our Phones

Events

Title	Date	Link
ODSC Warmup	October 3 - November 3	https://attendee.gotowebinar.com/ register/2294337013425062657
All Tech Is Human: A Summit on Ethical Tech	October 20	https:// ethicaltechsummit.splashthat.com/)
rXinEDU	October 25	https://edtechtimes.com/xr-in-edu/ #anchor_register
Quantitative Ethnography (NYU)	12:00pm October 30	http://tinyurl.com/ LEARN10-30-18
Capitalizing on the Cellular Technology – Opportunities and Challenges for Near Ground Weather Monitoring	2:00pm November 8	https://events.columbia.edu/cal/event/eventView.do? b=de&calPath=%2Fpublic%2Fspecial%2FPrivate&guid=CAL-00bb9e 24-6633cf27-0166-36f2cbdb-00002421events@columbia.edu&recurre nceld=
People centric approach to optimize Data Science, Commercial impact and Leadership	10:30am November 14	https://events.columbia.edu/cal/event/eventView.do? b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00 bb9e24-655b8449-0165-5e0ea7e9-00001957events@columbia .edu&recurrenceId=
Cross-device User Clustering at Adobe	11:00am November 29	https://events.columbia.edu/cal/event/eventView.do? b=de&calPath=%2Fpublic%2Fcals%2FMainCal&guid=CAL-00bb9e28 -655b8cee-0165-5dd5c72b-00001287events@columbia.edu&recurren celd=

Update a Github Fork





iGraph

iGraph

- Install and load the package "igraph"
- Generate a random graph:

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

Print the details of the graph:

g

Undirected/Directed, N = named vertibles; ber of vertices, W = weighted edges, B = bipartite graphmber 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-- 6 4-- 6 4-- 7
```

iGraph

Data Structures

Adjacency Matrix

	Α	В	С
Α		1	0
В	1		0
С	0	1	

To-From + Vertex Attributes

From	То
Α	В
В	С
С	Α

ID	Age
Α	10
В	11
С	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)
```

core-methods-in-edm/assignment2