

# Stream Field

Final Project Presentation  
CS 4624 Multimedia, Hypertext, and Information Access  
May 2, 2017

Virginia Polytechnic Institute and State University  
Blacksburg, VA, 24061

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# Demo



## Stream Research, Education, and Management Lab

### Definition

The project brings together scientists/educators in CALS and the greater Virginia Tech community to

<http://midches.com/images/uploads/default/demo.jpg>

# Demo (cont.)

Username:

Password:

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[Create an Account](#)

## Create New Experiment

[Submit](#)

## Previous Experiments

Ordered by Most Recent

hihi : 2017-04-27 00:00:00

### Select a Date Range



[Hourly](#) ▼

### Select a Type of Data

Off

Discharge

On

Sp Condition

Off

PH

On

Dis Oxygen

Off

Turbidity

Off

Temperature

### Select a Type of Graph



Plot Line Graph



Double Y-Axis D3



Multi Y-Axis Plotly



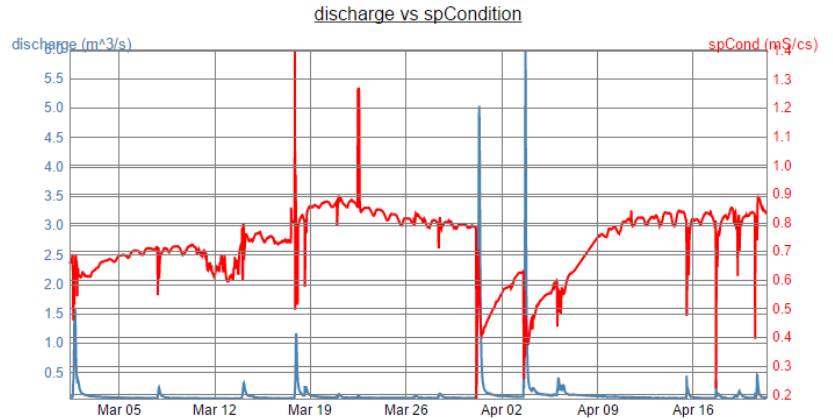
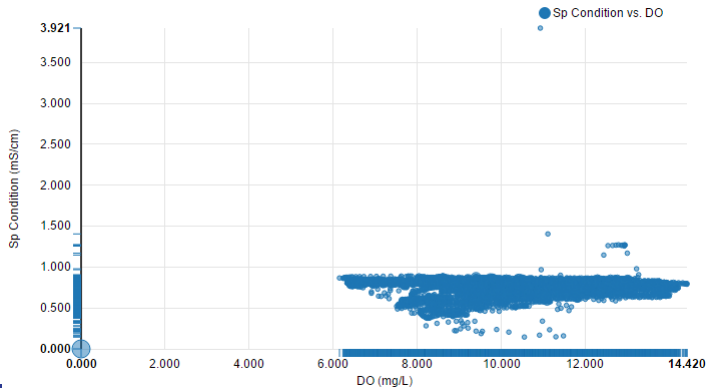
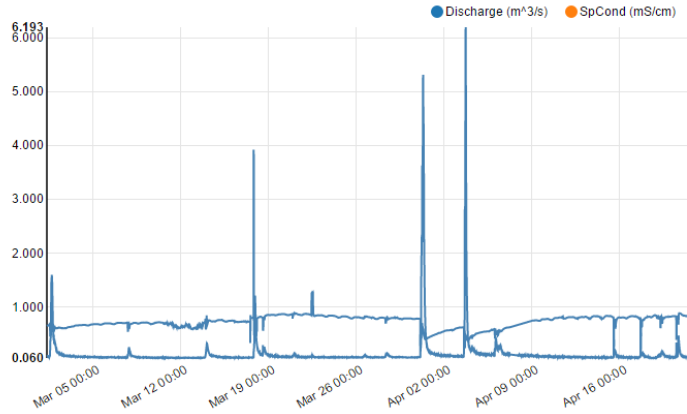
Scatter Plot

[Graph](#)

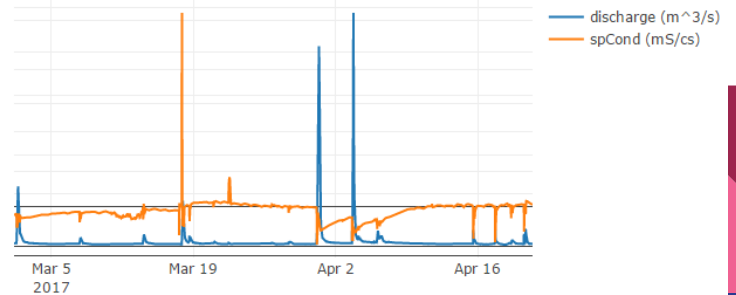
### Obtain Last Graph Query

[Save Graph](#)

# Demo (cont.)



Multi Y Graph



# Problems and Lessons Learned

License

Different data files

Understanding old code

Combining codes

Communication

date	discharge stage	DO_pct	DO	pH	spCond	temperatu	turbidity	
3/23/2013	0.120017	0.156	77.3	9.77	7.61	0.719	5.34	8.2
3/23/2013	0.118492	0.155						
3/23/2013	2:45		77.4	9.78	7.61	0.719	5.36	9.2
3/23/2013	0.116976	0.154						
3/23/2013	0.120017	0.156	77.6	9.78	7.61	0.719	5.39	8.8
3/23/2013	0.118492	0.155						
3/23/2013	3:15		77.6	9.79	7.61	0.719	5.4	8.2
3/23/2013	0.116976	0.154						
3/23/2013	0.121552	0.157	77.6	9.78	7.62	0.719	5.43	7.9

Discharge.Flow	Stage.Stage_n	Stage.Stage_m	Precip.Total.Rain_mm_Tot_HrSn	Precip.Total.Rain_mm_Tot_Smpl
m^3/s	m	m	mm	mm
0.18896651	0.196	0.2413572		0
0.19088868	0.197	0.2414479		
0.18896651	0.196	0.2409981		
0.18705401	0.195	0.2407422		

Home  
Experiments  
Logout

Select a Date Range

Select a Data Type

Discharge  Sp Condition  PH  
 Dis Oxygen  Turbidity  Temperature

Select a Type of Graph

Plot Line Graph  Double Y-Axis D3  Multi Y-Axis Plotly  Scatter Plot

Graph

Obtain Last Graph Query

Save Graph

[View all Experiments](#)

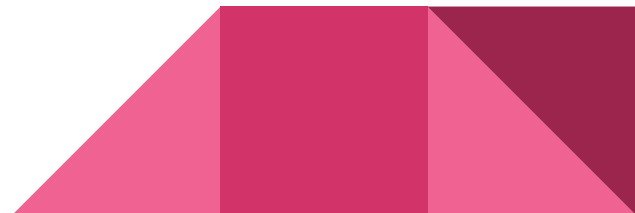


# Key References

**Gutierrez, Sebastian.** "D3 Tutorial Table of Contents." *DashingD3js.com*. DashingD3js.com. Web. 26 Apr. 2017.

**Perez, Fernando.** "Visualize Data, Together." *Plotly*. Plotly. Web. 26 Apr. 2017.

**Seidler, Kai.** "Apache Friends." *Apache Friends RSS*. BitRock. Web. 26 Apr. 2017.



# Acknowledgments

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