# VISUALIZING VOUR MAKE YOUR DATA MORE OATA! EXCITING

# HOW CAN WE SHOW PEOPLE THAT OUR DATA **MEANS** SOMETHING?

How Much Water Do We Use?

**Toilet** 

26.7%

Leaks 13.7%

Other

5.3%

Shower

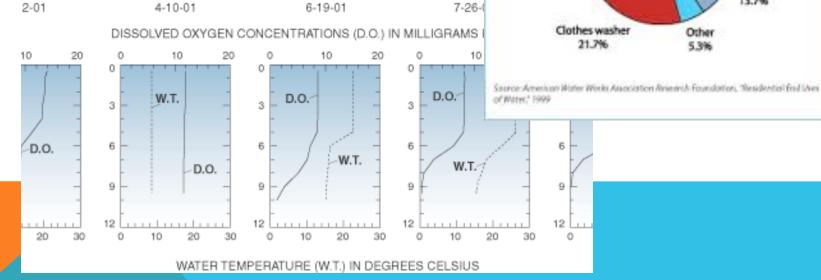
16.8%

**Faucet** 15.7%

Table 1. Values of physicochemical variables for each month: March 1989→February 1990.

Parameter	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Temperature (°C)	7	12	14	21	24	17	26	19	14	4	1	7.0
pH	7.3	7.6	7.0	7.0	7.2	7.0	7.1	7.6	7.0	7.4	7.7	6.9
DOa (mg/l)	7.0	6.7	2.9	3.2	5.5	2.4	3.3	4.3	6.0	7.6	6.6	7.1
DOa, % of satrnb	63	61	27	32	62	23	38	45	56	57	46	58
Conductivity <sup>e</sup>	105	210	320	135	140	95	120	120	170	160	190	200
Turbidity (FTU)	23	24	26	38	39	26	29	35	52	88	158	101
Alkalinityd (mg/l)	28	43	60	43	54	37	30	37	37	37	35	35
C-dioxidee (mg/l)	5	2	11	7	5	6	3	1	7	2	1	7
Ammonia (mg/l)	0.22	0.26	0.41	1.28	0.60	0.78	0.73	0.55	0.91	1.28	1.73	1.28
Nitrates (mg/l)	0	0	0.39	0.73	0.85	0.58	0.55	0.64	0.79	1.13	0.99	0.95
Nitrites (mg/l)	0.002	0.019	0.039	0.043	0.023	0.013	0.017	0.017	0.030	0.058	0.090	0.058
O-phsphts (mg/l)	0.38	0.30	0.28	1.49	0.50	0.91	0.70	0.18	0.20	0.25	0.27	0.41

a DO = Dissolved oxygen; DO, as percent saturated; LyS/cm; as CaCO3; Carbon dioxide; Orthophosphates.



# The **Embarrassing Lack of Clean Water Access** in the World

According to the United Nations, unsanitary water kills more people worldwithan war. As the precious water supply dwindles, it may prove to be more than just a crisis for developing countries.

SOURCES:
WORLD HEALTH ORGANIZATION
CLEANWATERFORTHEWORLD.ORG
WATER.ORG | WATERINFO.ORG
WORLDWATER.ORG | UNICEF.ORG



nttp://awesome.good.is.so.amazonaws.com/transparency/web/ 1100/clean-water/nash.ntmi

# National Geographic: The Hidden Data We Use

http://environment.nationalgeographic.com/environment/freshwater/freshwater-101-interactive/

# **INFOGRAPHICS**



# MAPS: GEOSPATIAL ANALYSIS

## 3-D DATA: SLAP SIGNS

http://www.youtube.com/watch?feature=player\_detailpage&v=SGh9K0yGqHE 1:40

# OR THEATRICAL DANCE...

HTTP://WWW.YOUTUBE.COM/WATCH?V=4Y52DRJPAA4&FEATURE=RELATED 2:11



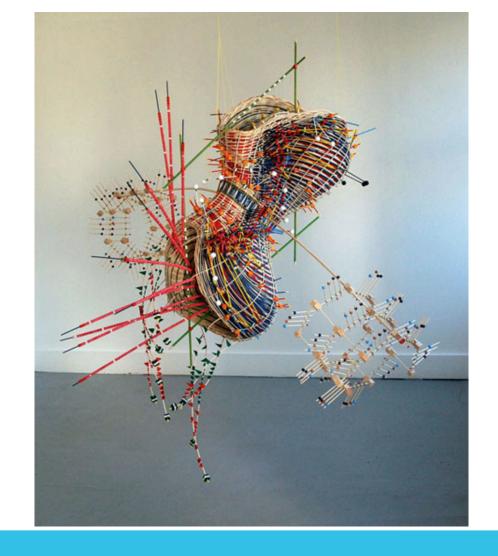
# BASKET WEAVING ATMOSPHERIC AND WATER DATA

Nathalie Miebach's Basket Weaving

http://
www.nathaliemiebach.com/
waters.html

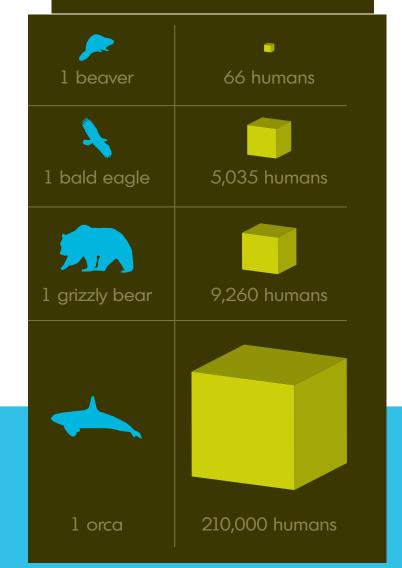
#### **Quick interview**

http://www.youtube.com/watch? v=V1jG5ar95ck



# **WILDNESS** Percentage of land (mostly) untouched by human activity 82% Canada 36%





## **MORE EXAMPLES!**

The New York Times Interactive

http://www.nytimes.com/interactive/2011/04/28/us/tornado-deaths.html

### **:YOUR CHALLENGE:**

#### STEP 1: 10 minutes

- Look through your field notebook
- Find your most interesting/meaningful data
- Check out the materials
- BRAINSTORM a creative, fun, and interesting way to present that information to the class.
- Get your proposal approved by your field instructor

#### STEP 2: 20 minutes

- Collect materials.
- CREATE!
- Practice
- Present

### **PRESENTATIONS**

Audience should be able to answer these questions after your presentation:

- 1. What relationship does the visualization show?
- 2. Why should we care about this data? Why is it important?
- 3. What part of the visualization most effectively portrays the relationship? What caught your eye or made you interested?