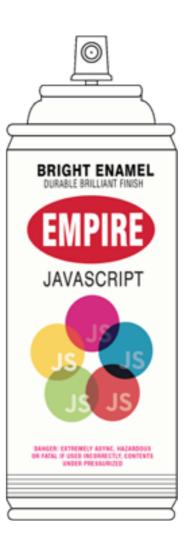
On how your brain is conspiring against you making good software

Engineering Manager @ DigitalOcean



Organizer @ EmpireJS





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Humans are "predictably irrational"

- Dan Ariely

"severe and systematic errors"

- Amos Tversky & Daniel Kahneman

software is about PEOPLE





- 1. On Being Logical
- 2. On Bugs and Debugging
- 3. On Planning Your Work
- 4. On Others' Code
- 5. On Open Offices
- 6. On Knowing Your Worth
- 7. On Assembling a Team

Humans aren't great logical thinkers.



All P are M.
All S are M.
Therefore, all S are P.



A 6 J 7

But, we get better when reasoning about concrete examples!



Beer 22 Soda 16

"Debugging is twice as hard as writing a program in the first place"

- Brian Kernighan



We tend to interpret and favor information to confirm our pre-existing beliefs.

"2, 4, 6"

We even distrust evidence that goes against our prior beliefs.









We often have no idea how close we are to solving a problem.



We have a tendency to be rigid in how we approach a problem.







Breaks are important!







Creativity is just about having all the right ingredients.



On Others' Code

Again, we tend to think about problems in fixed ways.



On Others' Code

We prefer things that we have made or assembled ourselves.



On Planning Your Work

We're bad at estimating how long it will take to do something.



On Planning Your Work

We think bad things are more likely to happen to others.



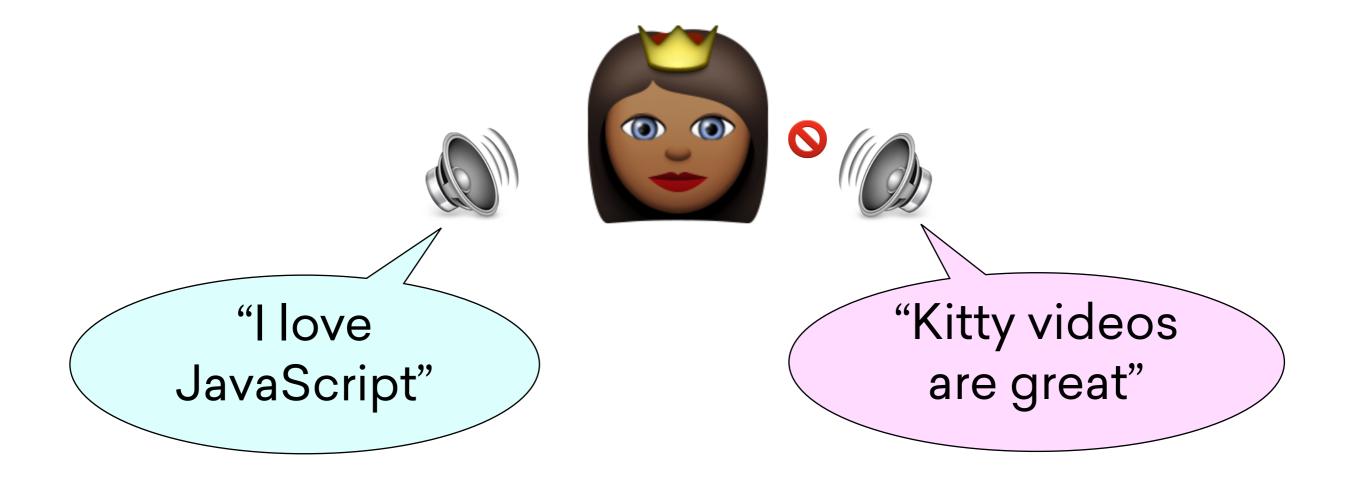
On Planning Your Work

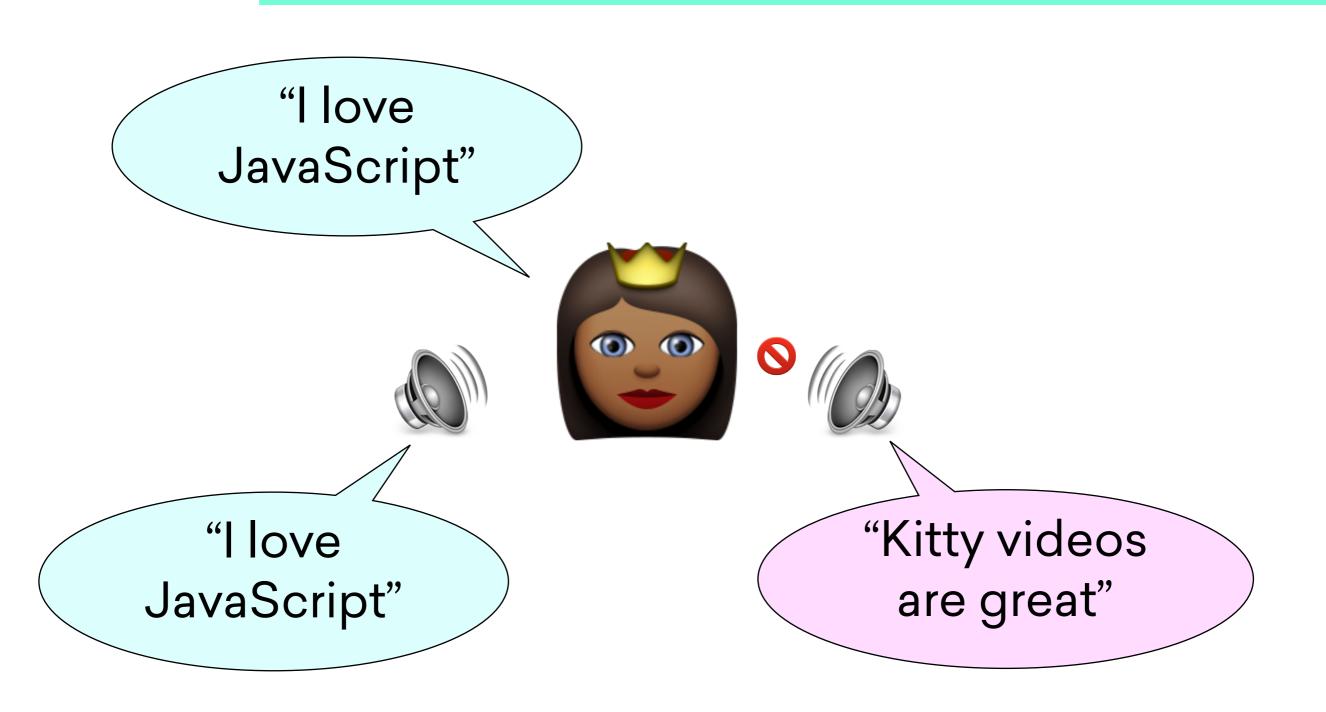
We are motivated more by losses than by gains.



We're *actually* pretty good at filtering out unwanted things...







...but we're not totally oblivious to it.







Selective attention requires both ignoring and paying attention.



But what about that but in juicy conversation happening next to you?



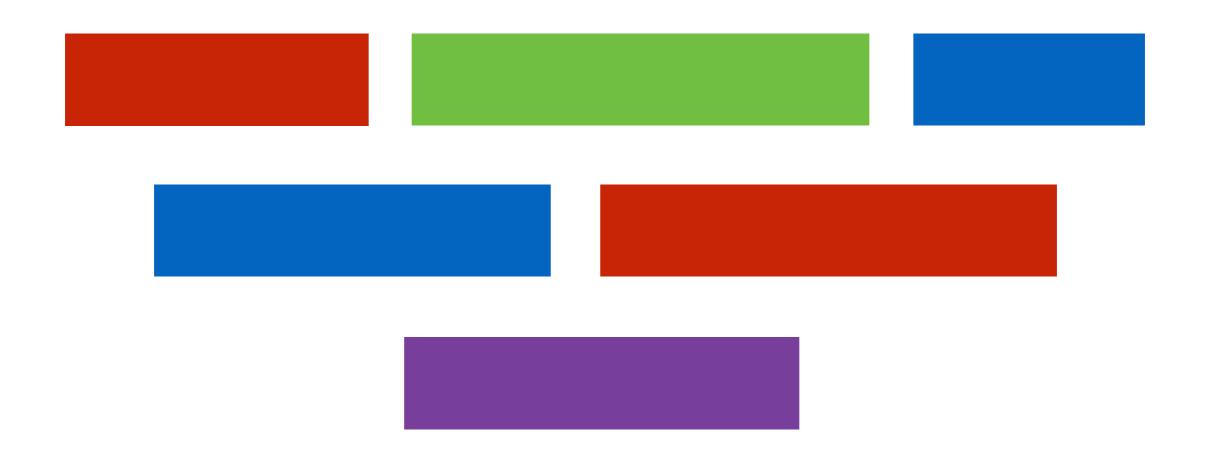




We're helpless to the processing power of our brain.

444

BLUE PURPLE RED GREEN PURPLE GREEN

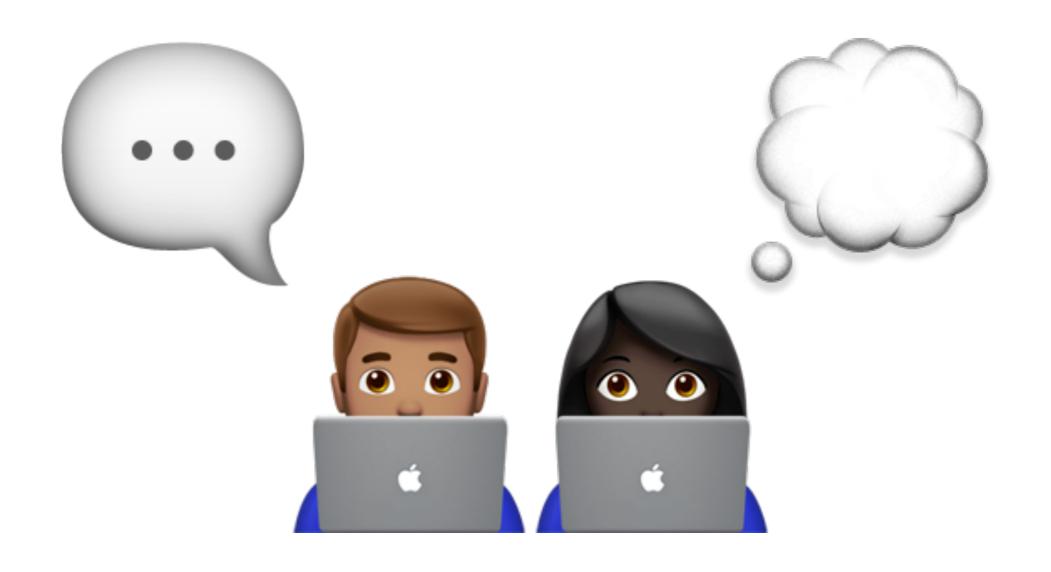


On Open Offices

BLUE PURPLE RED GREEN PURPLE GREEN

On Open Offices

BLUE PURPLE RED GREEN PURPLE GREEN



Unskilled people think they are better at tasks than they actually are.







We tend to overestimate our own skills and abilities compared to others.







Skilled people underestimate their abilities and think tasks that are easy for them are easy for others.



Skilled people sometimes feel their accomplishments are the result of luck or deception



We favor members of our own in-group.

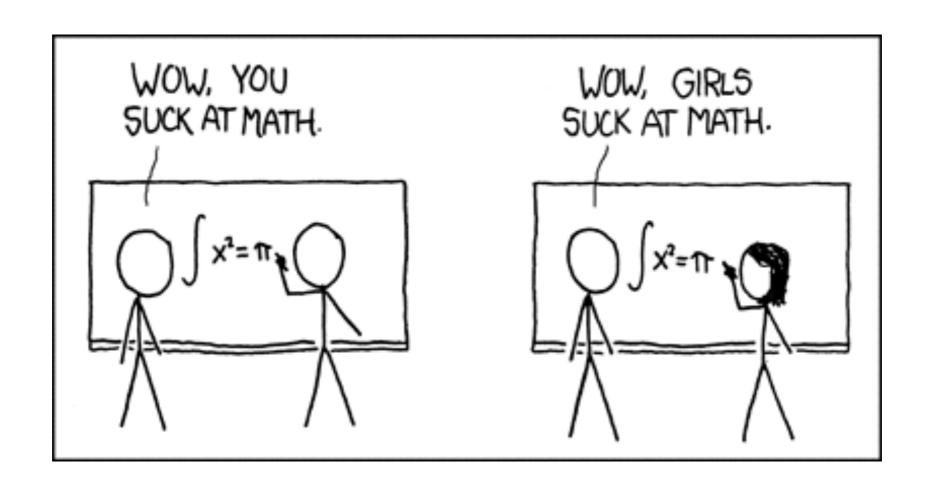


We tend to attribute situations to others' character rather than to external factors.



We tend to believe that attributes of a group member reflect the entire group.





We rely on examples that come to mind when evaluating something.















We assume group members will resemble the prototype for that group, and vice versa.



In some cases, we ignore probabilities in favor of focusing on details.



















hanks!





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@zeigenvector

