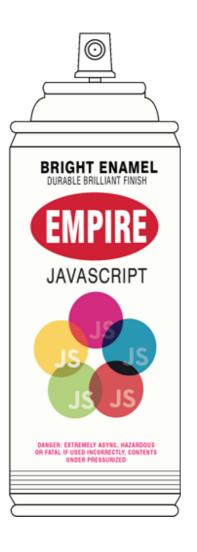
On how your brain is conspiring against you making good software

Engineering Manager @ DigitalOcean



Organizer @ EmpireJS







Humans are "predictably irrational"

- Dan Ariely

"severe and systematic errors"

Amos Tversky & Daniel Kahneman





- 1. On Being Logical
- 2. On Bugs and Debugging
- 3. On Sprint Planning
- 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.

People will endorse a 👎 bad argument 👎 if it leads to something they believe to be true.

A 6 J 7

But, we get much better about reasoning about concrete examples.



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

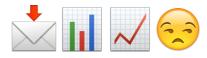


- Brian Kernighan

We tend to interpret and favor information in a way that confirms our pre-existing beliefs.

"2, 4, 6"

We even distrust evidence that goes against our prior beliefs.



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



We sometimes block problem solutions based on past experiences.



We often have no idea we're going to solve a problem, even thirty seconds before we crack it.



Breaks are more important than you think.



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 Sprint Planning

We're bad at making predictions about how much time it will take us to do something.



On Sprint Planning

We think that bad things are more likely to happen to other people than to us.



We're actually pretty good at filtering out unwanted stimuli...





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



Selective attention requires both ignoring and paying attention.



But what about that biuicy conversation bias happening next to you?



Sometimes we're helpless to the processing power of our brain.

444

BLUE PURPLE RED GREEN PURPLE GREEN

software is about PEOPLE



On Knowing Your Worth

Relatively unskilled people think they are better at tasks than they actually are.







On Knowing Your Worth

We tend to overestimate our own skills and abilities.



On Knowing Your Worth

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



On Knowing Your Worth

Impostor Syndrome.

We favor members of our own in-group.



We prefer the status quo.



We're liable to uphold the status quo, even when it hurts other people.

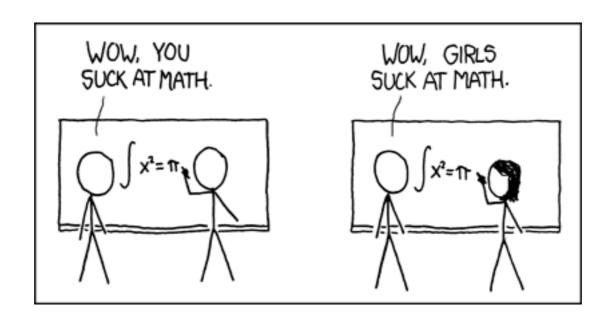


People have a tendency to attribute situations to others' character rather than to external factors.



People have a tendency 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 things in a group will resemble the prototype for that group, and vice versa.



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







On Getting Past This



System 1



System 2

On Getting Past This



Thanks!

jenna.is/at-forwardjs



@zeigenvector