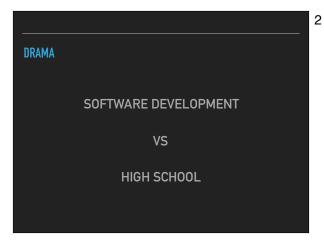
OPEN SOURCE NORTH

DRAMA-FREE DECISIONS IN SOFTWARE
DEVELOPMENT TEAMS

- To be honest, I'm not in love with the title of this session.
- Disconnects between the perception of software development and reality of it
 - don't think of software development as having drama, but it's there
 - Perception
 - analytical
 - binary
 - test-for-the-right-result and you're done
 - Reality
 - roller coaster ride of emotions
 - incredible amounts of passion
- we spend way more time collaborating than a lot of people think
 - collaborations around decisions are what I'll be focusing on
 - trigger for drama in a lot of teams
 - right and wrong options are rarely apparent at first glance
 - deciding between two imperfect options
 - lots of flavors of decisions teams make
 - how to design a technical solution
 - how appropriate test coverage for a piece of work
 - how to estimate work
 - how to organize a sprint/iteration board on a wall or in Jira, etc.
 - the decisions are under the control of the team
 - can't do as much with drama around release dates shifting, disconnects with other departments
 - want to focus on something we can all impact
- This topic is important to me because
 - As an engineer and architect, I've seen how removing drama from decisions can improve a team's performance and happiness level
 - It's now the focus of my job.
 - As a manager at Jamf, I support teams. One of the most consistent needs for support I've encountered is helping teams make decisions.
 - To be clear, I'm not making the decisions a manager. I'm enabling them to make the best decision they can.



- true story that helped me better understand the drama in software development and how I could help minimize it
- long, arduous process on defining the schema in a project
 - really frustrating for the team
 - lots of time wasted
 - not being heard
 - not moving forward
- wanted to talk through it with spouse
 - first asked her how her day went
 - spouse told me about her rough day at work as a high school counselor
 - ambulance ride in morning
 - police car ride in afternoon
 - that's on top of the normal day to day
 - I tried to explain my drama but failed to
 - forced me to rethink my perspective
- Moral of this story is not that software development isn't altruistic enough
- Point by point comparison
 - how we're trained
 - high school counselor
 - went to school for counseling curriculum included strategies, expectations, etc.
 - software engineer
 - One class with "group project"
 - support systems in place
 - high school counselor
 - workers to do targeted, heavily lifting with issues at home
 - therapists for mental health counseling
 - dean for discipline
 - special education professionals for those who need it
 - software engineer
 - manager
 - scrum master / iteration manager
 - HR
 - objective of job
 - high school counselor
 - help those she can
 - work with others for specialized, harder cases
 - software engineers
 - deliver the work
 - you want to blame failure on drama?
- All that helps explain why this goes bad so often
- software engineers are not trained for drama, our support systems are imperfect, and our objectives are different

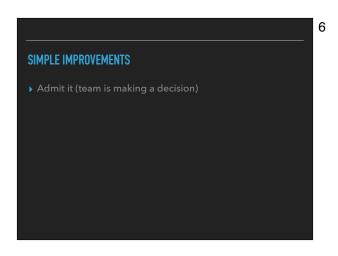


- That's why we want to focus on decision making
 - often the event that triggers the drama
 - software teams control their decisions why do we inflict this pain?
 - external vs internal triggers for drama
 - high school counselor
 - home/family life
 - drugs, mental health, etc.
 - software engineers
 - outside of deadlines and customer constraints, it's us
- decisions for development teams are about practical things
- when drama is introduced, reducing the drama becomes the primary goal
- compromise in these situations is often about feelings, not the practical details
- drama can and should be addressed, just as its own thing
- Not advocating that we ignore or avoid drama
 - drama can be good
 - should attack it head on
 - no need to take it on unnecessarily

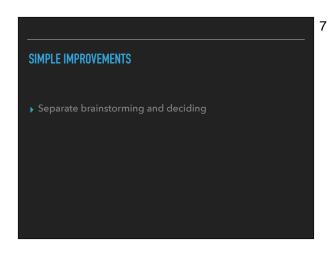
BETTER DECISIONS WITHOUT DRAMA

- Simple improvements to team decision making
- Make different decisions
- Pro tools
- People params (and how to factor them in

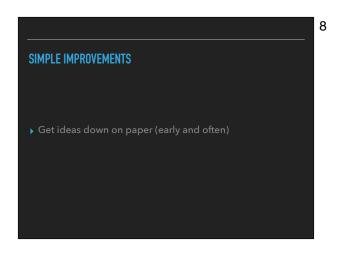




- clearly identify and acknowledge that the goal of the team is to make a decision
- designing a solution is different that asking "should we go with this solution?"
- RED BUTTON ISSUE EXAMPLE

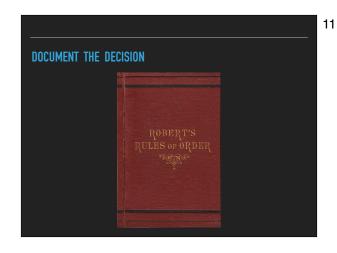


- break brainstorming and identifying options away from decision making
 - clearly distinguished
 - can ideate and decide in same meeting, but why?



- whatever the input is for the decision, document it so people can absorb offline
- allows new people joining to catch up
- allows people how drop off and rejoin (because of time off, getting pulled away, etc.) to get back





- Robert's Rules of Order
- most widely used manual of parliamentary procedure in the United States
- first published in 1876
- It governs the meetings of a diverse range of organizations
 - church groups
 - county commissions
 - homeowners associations
 - nonprofit associations
 - professional societies
 - school boards
 - trade unions

SIMPLE IMPROVEMENTS

- Admit it (team is making a decision
- Separate brainstorming and deciding
- Get ideas on paper (early and often)
- Confirm criteria
- WRITE DOWN THE DECISION

MAKE DIFFERENT DECISIONS

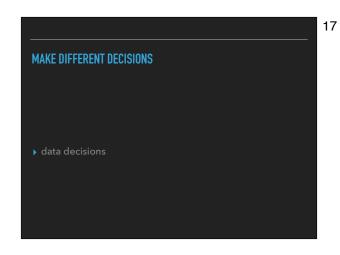


- don't think you're making a decision to solve all the world's problems
- example: big service vs. bunch of mini service
 - ended up needing either of them
 - don't try to accommodate hypothetical futures

Example: team only implementing slice of large POC that covered lots of new cloud technologies



- As a team, if your in the rut of drama, ask yourselves if there are any timing constraints.
- If there aren't or they allow for it, break for a while.
- Break for a while with the clear message: THINK ABOUT HOW WE CAN GET THROUGH THIS DECISION. NOT WHAT THE RIGHT ANSWER IS, BUT HOW DO WE AVOID THIS DRAMA ON THE JOURNEY THERE.



Decide on what data you need:

- Essentially deferring the decision, but deciding on what data is going to make that decision for you.
 - APM tools, such as AppDynamics
- Experiments
 - Testing team members on delivery teams

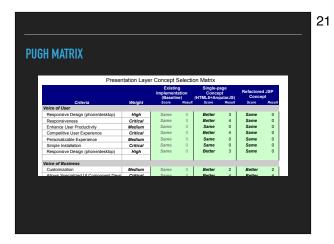
MAKE DIFFERENT DECISIONS

It is small > big
It less better than more
It kick the can
It data decisions

Bob Martin's architecture philosophy:

- good architecture is one that allows major decisions to be deferred
- secondly that a good architecture maximizes the number of decisions not made

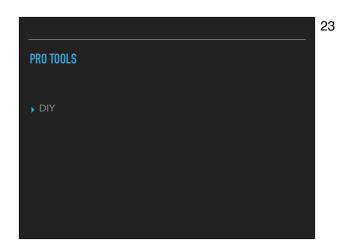
PRO TOOLS

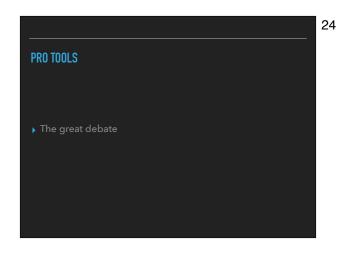


- ranking off of a baseline
- is each criteria better, worse, or the same than the baseline?



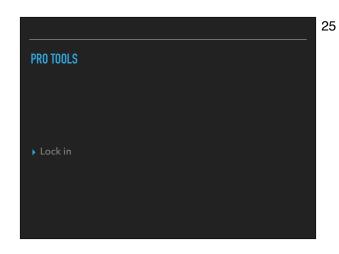
- Example: Jamfs decision to switch UI technologies
 - Company founder wrote most of the code but very committed to Java / JSP
 - Our UI was buggy, difficult to work with, and visually stale
 - Emotional decision
 - Why deviate from a successful technology strategy vs. are you kidding me, JSPs are horrible and ancient?
 - Important to note how this format helps both sides of the argument
 - Both sides are validated to at least some degree
 - big step beyond "you're dumb"





Idea from Radical Candor by Kim Scott

- Talks about collision and tension between debaters and deciders
- Schedule debate times with no decision to be made
- Output
 - clear summary of the facts and issues that emerge
 - clearer definition of the choices
 - recommendation to keep debating or move on
- Unique to this solution:
 - Ask participants to switch roles halfway through each debate
 - ensures people are listening to each other
 - keeps focus on coming up with the best answer
 - people let go of egos / positions
- Side note: author wants to promote a culture of debate
 - lots of small debates for small corrections
 - big corrections create catastrophe



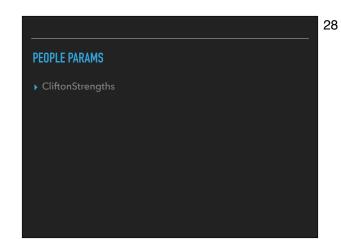
- Literally lock people in a room until decision is made
- Counter intuitive when compared to the "kick the can" advice earlier
- Benefits
 - focus on issue
 - pain in dragging it out
 - forced engagement
- GATX quick-starts
 - stakeholders/SMEs colocated to map out high level project decisions

PRO TOOLS

- Pugh matrix
- DIY
- The big debate
- Lock in



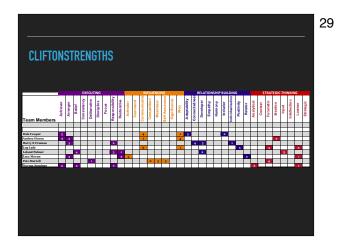
not learn how to be a team player, but practically understand how different people and approaches play into the process



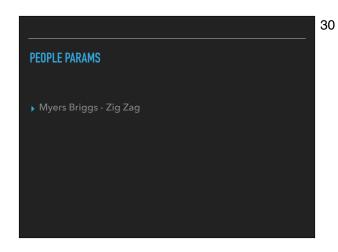
Clifton StrengthsFinder

Attribution/Notes:

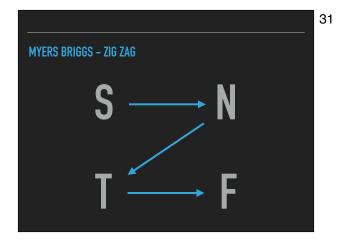
- CliftonStrengths is the tool formerly known as StrengthsFinder. Both tools are the property of Gallop: https://www.gallupstrengthscenter.com.
- The document in this presentation is a "scrubbed" version of a report provided by a certified Strengths coach. We are lucky enough to have an agile coach at Jamf who is certified in Strengths. This spreadsheet is a tool that should only be used in conjunction with a full CliftonStrengths assessment by a certified professional.



Talk through examples of individuals and teams I've worked with and how attributes impacted decision making.



- Typically thought of as helping individuals
 - learning about each other helps
 - I'm a ISTJ
 - Introvert
 - Sensing
 - Thinking
 - Judging
- Example of sensing vs. intuition
 - Colleague and I with mapping technical and feature aspects of product



- Decision model good for teams
 - Both as process to follow and to identify where people's strengths are in decision making
- Sensing
 - List all the facts about the situation and get more data if needed
 - Make sure the facts are all clear and relevant to the decision at hand.
- Intuition
 - After considering the facts, this is the time to brainstorm solutions, and no idea is too wild.
 - You can jot down ideas that could lead to a decision, considering multiple possibilities.
- Thinking
 - analyze what you've got
 - consider the consequences of the different solutions available, and identify which ones are realistic
 - Considering the decision dispassionately, as if you aren't involved, can sometimes help.
- Feeling
 - Consider the possible effects the decision on people.
 - What do you think others' reactions will be?
 - Can you live with those reactions? Talk about how teams work through decisions
- Understand which phase of decision process people are likely to shine or get frustrated in
 - Make sure there's space for each of these
- Benefits of these people tools
 - These can be guides to direct how process should be formed
 - Different teams with different types of people likely benefit from different decision mechanisms
- Resistance
 - I've faced a number of situations where individuals are scared of these processes. Feels like they are exposing themselves. This can be a violation of their privacy.
 - I can empathize with this.
 - I took the Myers Briggs test when I was in my early 20's
 - Felt like I was being pigeonholed
 - I wanted to be everything to everyone
 - Mostly, this had to do with being single
 - Also thought I could do anything
 - Took it again almost 20 years later
 - was like a warm blanket
 - doesn't mean I'm perfect
 - have a much better understanding of who I am
 - strengths and weaknesses





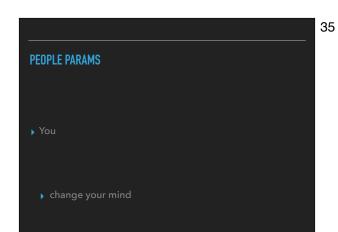
decisions are about ideas fighting, not people easy to miss

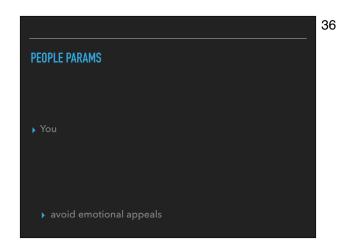
• example: technical lead repeatedly insisting we needed a "good" database schema



be willing to be wrong

• don't encourage your own overconfidence or fear in others





avoid emotional appeals

- Engineer saying we have to take on security work because we don't want to work for a company that doesn't do that
- Lots of other good reasons to do the work
- Not going to convince others who don't understand the emotion behind appeal

PEOPLE PARAMS

- ▶ CliftonStrengths
- Myers Briggs Zig Zag
- You
- Always, always be respectful
- be wrong
- change your mind
- avoid emotional appeal

BETTER DECISIONS WITHOUT DRAMA

- Simple improvements to team decision making
- Make different decisions
- Pro tools
- People params (and how to factor them in