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Privacy, Triage, and Risk Or, The Art of VP-Wrangling

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My Key Collaborators

- Lea Kissner Privacy and respect in computing
- A. V. Flox Psychological safety, activation, and trauma
- The Google Privacy Team years of work and collaboration

The Talk I'm Not Giving: "Building for Trust"

- What is building for trust?
- Why build for trust?
- How do we build for trust?
- How do we assure ourselves we've build correctly?
- Where are the big challenges?

For the broad outline, see Lea Kissner's IWPE 2019 Keynote, or Sha Sundaram's PEPR talk from yesterday.

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Triage includes three things

1. Identify possible responses to threats

- 2. Prioritize threat response (vs all other tasks)
- 3. Achieve consensus on prioritization

Triage includes three things

1. Identify possible responses to threats

2. Prioritize threat management (vs all other tasks)

3. Achieve consensus on prioritization

Requires common language, alignment of understanding

Good tools for (3) help (2), and vice-versa.

Why triage is hard

1. Things people estimate poorly:

Rare, catastrophic events.

Continuous invisible impacts that add up.

2. People are drowning in priorities.

3. Different people have different threat models.

Four useful tools





How do you trade product value vs. rare catastrophic risks?





Applied to a single user of a specific product



1

The Universal Value Curve

You've seen this curve before.

"Money can't buy you happiness, but poverty can buy you one hell of a lot of misery."





This also helps understand why this curve works



See also: Y. Zunger, "Financial Shock Wealth." NewCo Shift, Dec. 2017

See also: Notorious B.I.G., "Mo' Money, Mo' Problems," Life After Death



Most happiness comes from eliminating stressors



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Applied to the total user population





The Universal Value Curve

That may seem obvious, but...

Do your product success metrics increase unboundedly per user?

Metrics like "total engagement-seconds" can create **perverse incentives**. Was the user any happier?

Do the numbers that drive your company align with user happiness? In the short term? In the long term?

1

The Universal Value Curve

Use this to assess risk, design metrics, and convey tradeoffs

Far LHS: Don't multiply. bignum × smallnum = noise You can't measure accurately enough.

Instead: Count, use narrative Graph is *qualitative, illustrative* "How many deaths per year is this feature worth?"





"Relationships need to have at least a 5 to 1 ratio of positivity to negativity during conflict"

Applied to user experience:

- Positive moments ("aha!", task accomplished, pleasure) versus
- Negative moments (stuck, broken, harassment)

What's actually happening?

- The body is designed to detect danger cues and go on alert (neuroception)
- "Negative moments" are **unsafety signals:** "did I just lose my file?" "Am I being attacked?"
 - Same kind of unsafety as in LHS of value curve!
 - Response via autonomous NS, 50-500msec; decay via meta-cognitive processes, seconds-hours.

- As emotional resources deplete, the trigger threshold drops
 - People stop looking for safety and start confirming danger.
- Creates a **positive-feedback loop**:
 - Initial susceptibility \propto person's baseline unsafety.
- A single source can trigger the signal many times
 - Re-reading alarming text
 - Encountering other people's danger responses
 - Attempt to remedy which fails

Consequence: When people feel unsafe, they're...

- Less likely to explore, learn, exchange information
- Less likely to keep using the product
 - 30% of people who have experienced serious online harassment have stopped using an online service after witnessing harassment there.
 - 18% have experienced serious harassment
 - 41% of 18-to-29-year-olds

Y. Gong et al., "Unfolding the Proactive Process for Creativity," J. Mgt 2012 38: 1611

M. Duggan, "Online Harassment 2017." Pew Research Center, Washington, D.C. (July 11, 2017)

Use this to design interfaces, highlight user loss risk.

- Measure positive/negative ratio directly, when you can.
 - This can be a good user happiness metric
 - Gottman ratio hints at where it saturates
- When something goes wrong, minimize time until user can act to relieve the problem.
 - Easy report flow; quick help; get back to "safe state."
 - Think 100s of msec, not minutes.





How do you prioritize user worries versus real dangers?

	Safe	Sense of Threat			
Safe	No Threat		General Danger		
of Threat	Everything is great! <i>Relax</i>		People afraid and limiting behavior Communicate		
Presence	Invisible Danger		Clear Danger		
Bad Pres	M	e unaware of threat litigate danger nunicate with care	People aware c danger <i>Mitigate an</i> communica	d	



How do you prioritize user worries versus real dangers?

	Safe Sense of Threat Alert			
of Threat Safe	No Threat Everything is great! <i>Relax</i>	General Danger People afraid and limiting behavior <i>Communicate</i>		Traditional risk analysis If this goes wrong, what happens? How
Presence (Invisible Danger	Clear Dange		do we prevent it? What do we communicate?
Bad	People unaware of threat <i>Mitigate danger</i> <i>Communicate with care</i>	People aware o danger <i>Mitigate an</i> communicat	d	



How do you prioritize user worries versus real dangers?

	Safe Sense o	f Threat Alert	
Safe	No Threat Everything is great!	General Danger People afraid and limiting	User perception affects action.
of Threat	Relax	behavior Communicate	When people don't know, they assume the worst.
Presence	Invisible Danger	Clear Danger	
Bad Pres	People unaware of threat <i>Mitigate danger</i> Communicate with care	People aware of real danger <i>Mitigate and</i>	If you're legit, how do people know? How can they verify it?
		communicate	Fear spreads in a

vacuum



How do you prioritize user worries versus real dangers?

	Safe	Sense of Threat Alert				
Safe		Threat ng is great!	General Danger People afraid and limiting behavior <i>Communicate</i>		Beware of scared PR / legal / etc teams	
of Threat		elax			One school believes "the less you say, the less risk."	
Presence	Invisible Danger		Clear Dang	er	If people are already	
Bad	People unaware of threat <i>Mitigate danger</i> <i>Communicate with care</i>		People aware o danger <i>Mitigate ar</i> communica	nd	afraid, you're already paying the price.	



How do you prioritize user worries versus real dangers?

	Safe Sense of	of Threat Alert		
at Safe	No Threat Everything is great!	General Danger People afraid and limiting	But look for unexpected allies!	
of Threat	Relax	behavior Communicate	PR, legal, marketing, or public policy teams often <i>want</i> to	
Presence	Invisible Danger	Clear Danger	communicate.	
Bad	People unaware of threat <i>Mitigate danger</i> <i>Communicate with care</i>	People aware of real danger <i>Mitigate and</i> communicate	They often fear the others will say no! Talk to everyone.	



Use this to talk about perception in the language of risk.

	Safe	Sense of			
of Threat Safe	Eve	No Threat erything is great! <i>Relax</i>	General Danger People afraid and limiting behavior <i>Communicate</i>	If you're in the red, you have a problem. The risk to your	
Presence of]		visible Danger e unaware of threat	Clear Danger People aware of real	<i>company</i> is real in all three squares!	
Bad		litigate danger nunicate with care	danger Mitigate and communicate		

You're worried about a risk; the product VP isn't.

Are they right? Are they uninformed? Do they not care?

Activists view systems through the lens of a single problem.System operators view problems through the lens of a single system.



The system that most affects the problem ≠ The problem that most affects the system





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The system that most affects the problem ≠ The problem that most affects the system



Sometimes priorities don't align. When this happens, you often want something from an operator.

- You need to build social capital:
 - Do they have a persistent annoyance you can fix?
 - Can your proposal move the metrics they worry about?
 - If you can't do it, can you get someone else to?

Look for *their* unspecified fears and pressures – and help fix them!

Caveat: The last bit applies to *non-adversarial* relationships when you are not the person whose resources are being drained.

- If basic goals don't align, this doesn't work well.
- If you're the injured party, you don't have the resources to do this.

But privacy professionals are often in this situation – Use it!

The Moral of the Story

Triage is both about estimating risks and convincing people.

The most useful tools give you a common language to do this.

Flox: "Remember the human":

- People want to feel safe and be safe.
- That includes users and stakeholders alike.
- When you can help them do that, good things can flow.