







CEO, Two Hat Security













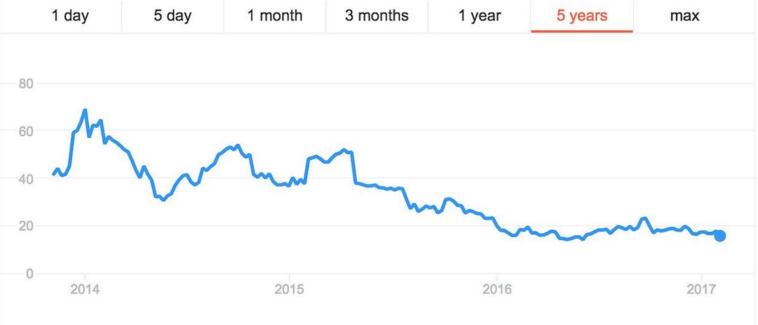








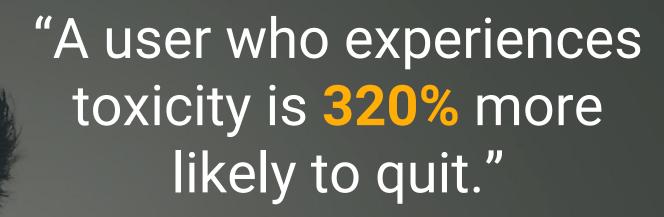












Jeffrey Lin, Riot Games, 2014

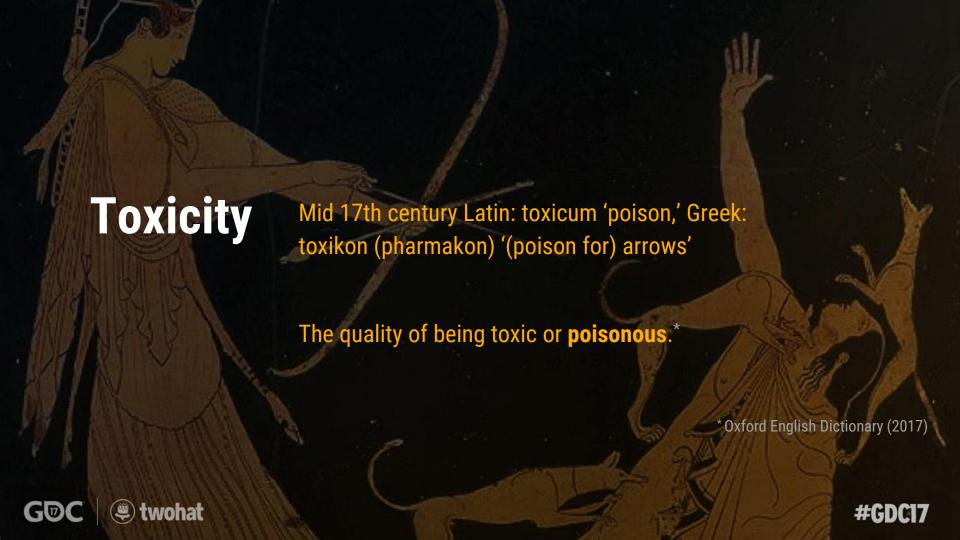
"I attended Jeffrey's talk because I'm a huge fan of Riot Games... We had the same complaints about toxicity in our game, so it clicked for me. It helped me recognize the potential risk of a toxic community and justified the monetary investment."

Alexander Galasso

Monetization & Retention Director, Playtika







Troll

Orig. Old Norse, 1610s: 'not of the human race, evil spirit, monster'

A person who makes a deliberately offensive or provocative online post.*

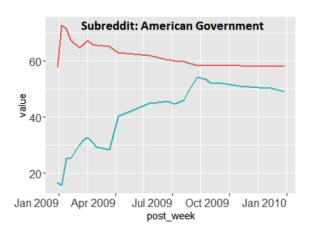
* Oxford English Dictionary (2017)



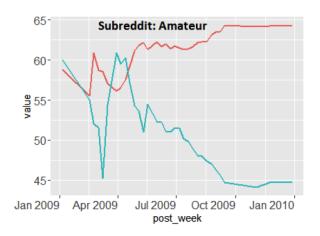




"Small increases in toxicity *may* sometimes lead to growth. But large increases in toxicity always lead to health decline."

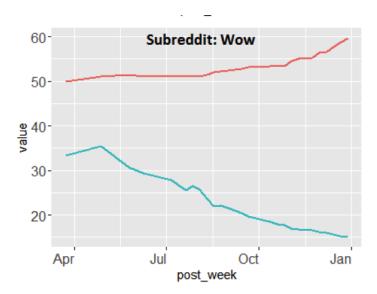


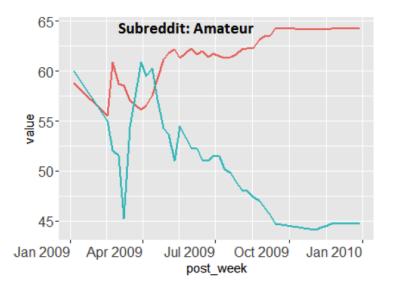
The Impact of Toxic Language on the Health of Reddit Communities Shruthi Mohan, Simon Fraser University (2017)











The Impact of Toxic Language on the Health of Reddit Communities Shruthi Mohan, Simon Fraser University (2017)

















BASELINE



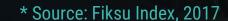


1 MILLION USERS

\$2.78 CAC*

\$13.51 LTV

5% CHURN











TARGETS

SERATHIAN

10%

Monthly Growth (MoM)

\$21M

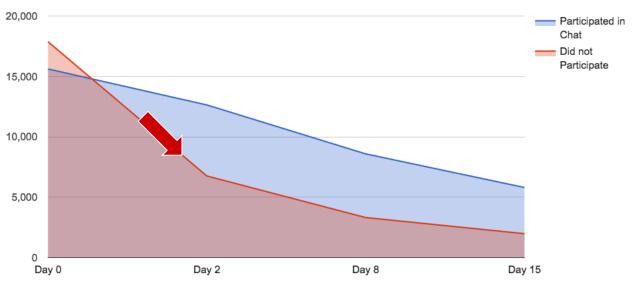
Annual Revenue

GOC



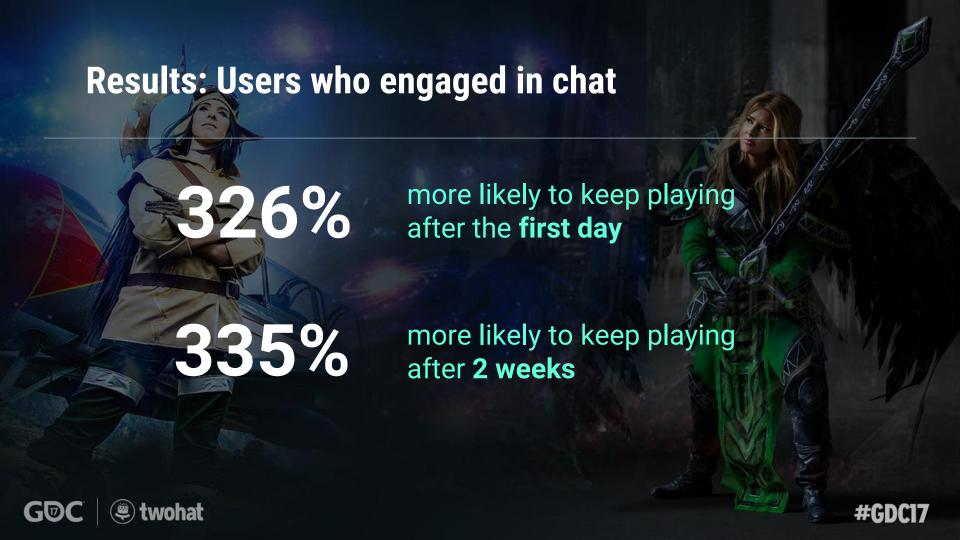
#GDC17

Chat Participation & User Churn



	Day 0	Day 2	Day 8	Day 15	Total Users %
Participated in Chat	15,615	12,639	8,589	5,806	37.18%
Did not Participate	17,870	6,759	3,318	1,982	11.09%







THE FORMULA



Loss rate with 10% toxicity = 6.6%

Loss rate with 30% toxicity = 9.8%

U' = U - (U * Loss) + Acquired





MODERATION

SERATHIAN



"We'll incorporate moderation from the start"



"We'll let our users deal with it themselves"









Q1 PATHS DIVERGE





218,460

10% toxicity

30% toxicity

324,380

Users Lost



Users Lost

-\$1,527,498
Acquisition Cost

-\$60,000

Moderation Cost

-\$1,821,956

Acquisition Cost

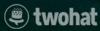


\$234,457

Difference







End of Year 2

Total Profit \$47,177,580

Total Profit

\$39,784,858



The 7 Million Dollar Difference:

+\$7,392,722





User Attrition

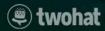
-5,840,824

User Attrition

-8,672,738



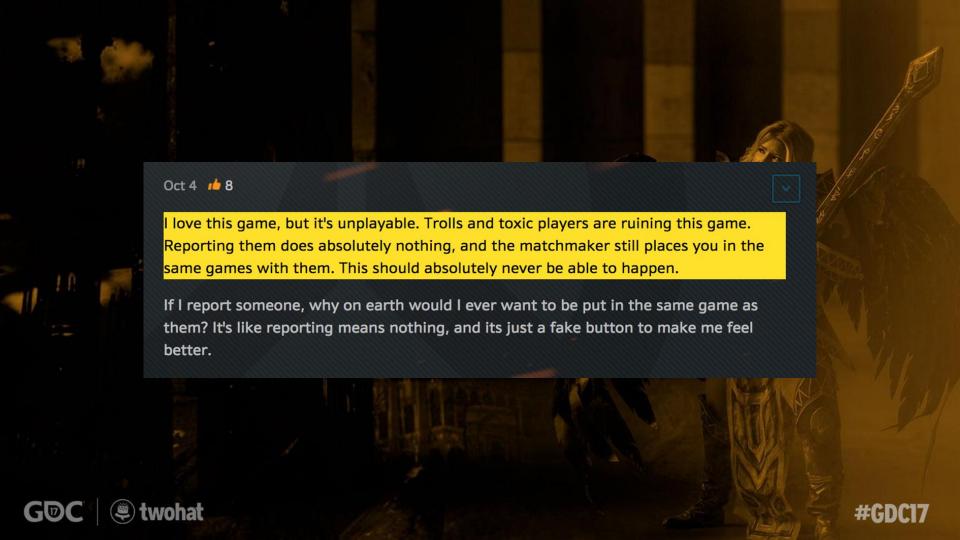




Strategies That Didn't Work







Strategies That Worked



Knew the Resilience of Their Community

Divided Users into Quadrants

Used AI + Human Moderation

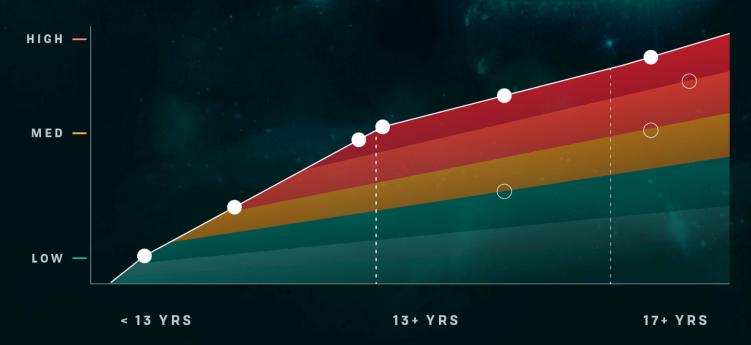






Community Resilience



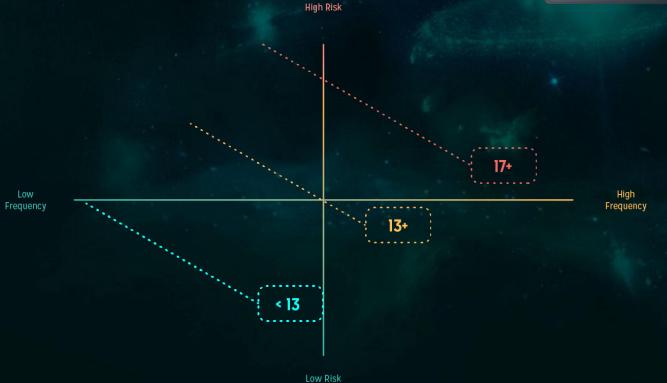




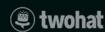


Community Resilience









Prioritized Risk Groups





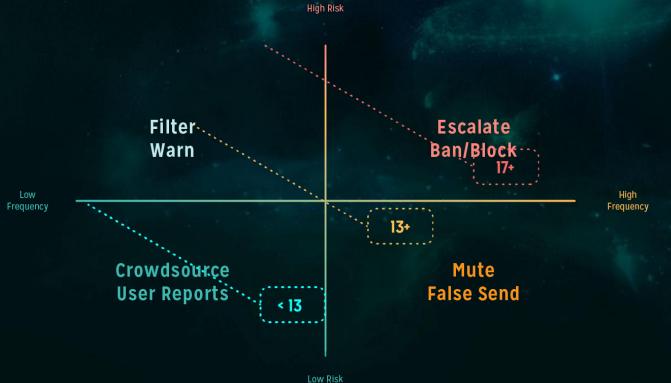
Low Risk





POST MORTEM | Strategies that Worked Defined Action Plans









Moderation + Al









Moderation + Al





2 months ago

With respect to the second-last paragraph, I think jerks sneaking around moderation is exactly what AutoMod is designed to overcome. Assuming it works as advertised, it would be able to detect if some new phrase is being used abusively, and block it or refer it to a human moderator. Basically, and hopefully, new forms of abuse would only work once.

A - Reply - Share

12/14/16 4:18pm

Twitch, please share this magical technology with every FPS publisher.

→ Reply



Rule 1 A Little Moderation

Identity Language

Referring to race, religion, gender, orientation, disability, or similar

Sexually Explicit Language

Referring to sexual acts, sexual content, and body parts

Aggressive Language

Hostility towards other people, often associated with bullying

Profanity

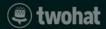
Expletives, curse words, things you wouldn't say to grandma

Some filtering

- No filterina

- No filtering

- No filtering



What are the Benefits of Doing Something?

Financial - Higher ROI

Brand - Protect Your Reputation

Community - Encourage Better Future Behavior









Thank you!

Chris Priebe

CEO, Two Hat Labs

a research division of Two Hat Security

