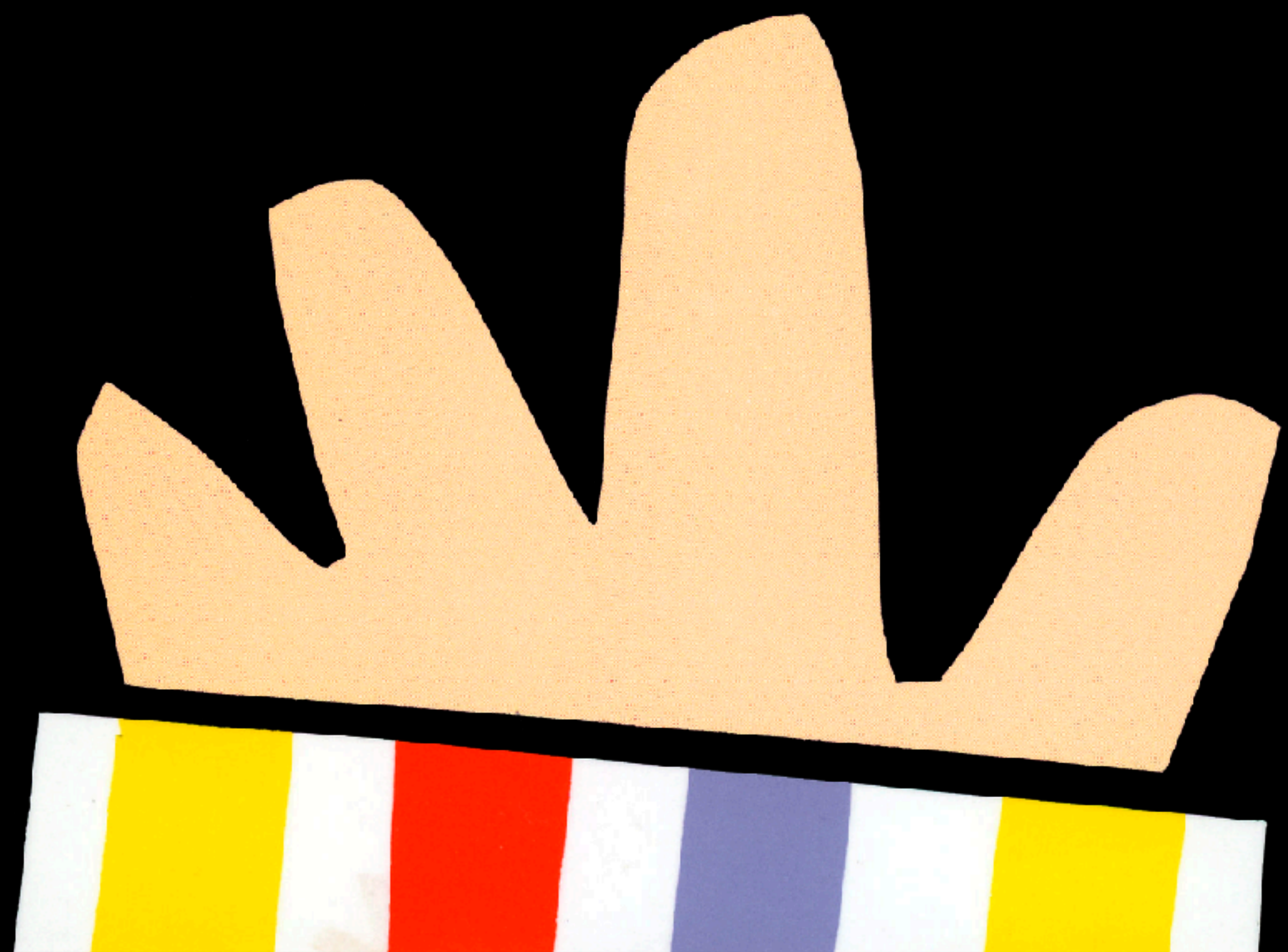


**It takes a village
to raise a bot**



**Desiree García
@thedezzie**





Watson Candidate Match

Watson is 96% sure you will vote for Donald Trump

← Try another Twitter handle

Personality

Needs

Values



Donald Trump
@realDonaldTrump

You are social, confident and rational.

You are confident: you are hard to embarrass and are self-confident most of the time. You are appreciative of art: you enjoy beauty and seek out creative experiences. And you are altruistic: you feel fulfilled when helping others, and will go out of your way to do so. [Read more...](#)

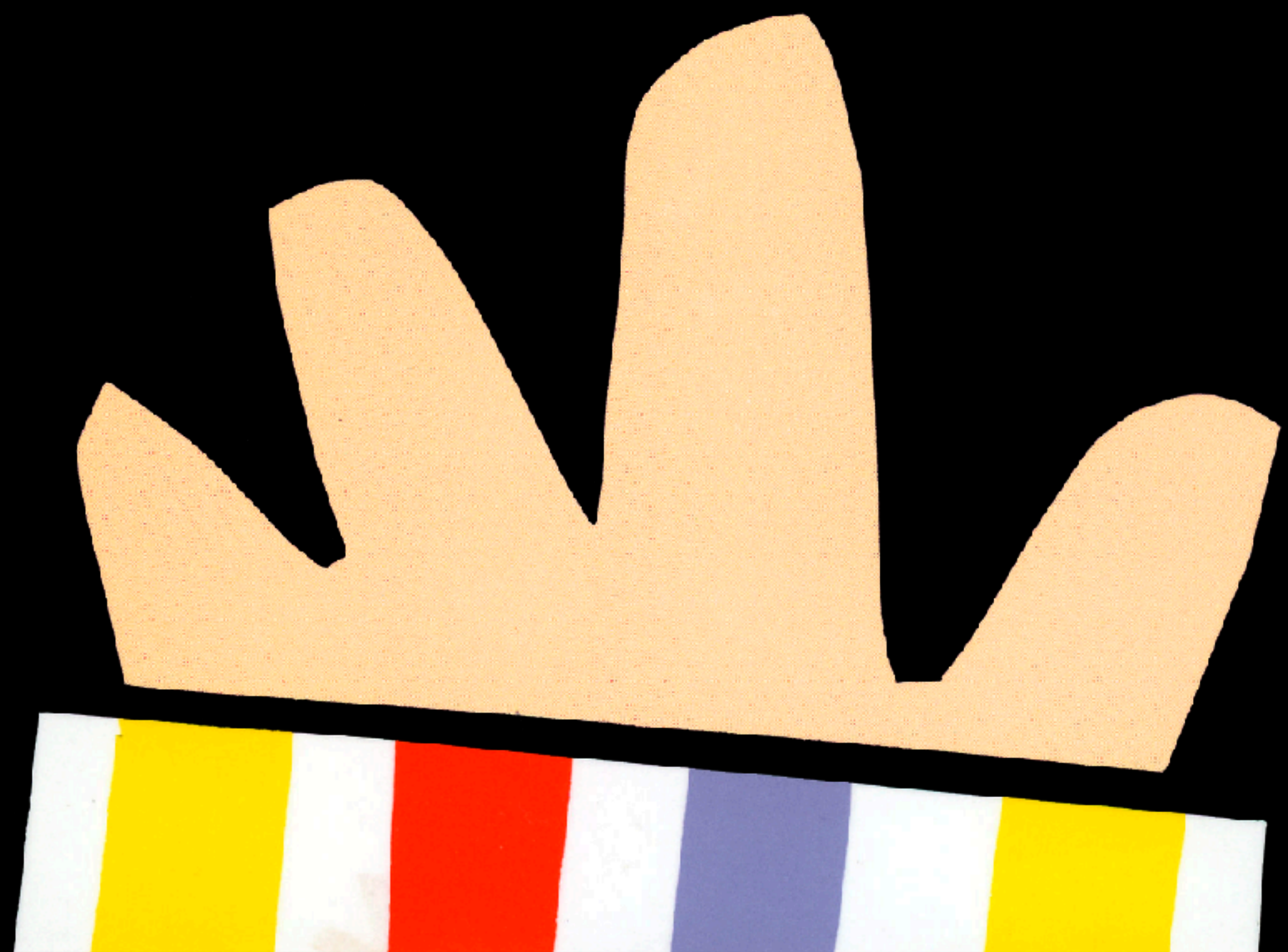


[Redacted Name]

You are unpretentious.

You are unconcerned with art: you are less concerned with artistic or creative activities than most people who participated in our surveys. You are intermittent: you have a hard time sticking with difficult tasks for a long period of time. And you are empathetic: you [Read more...](#)

How did we get this?

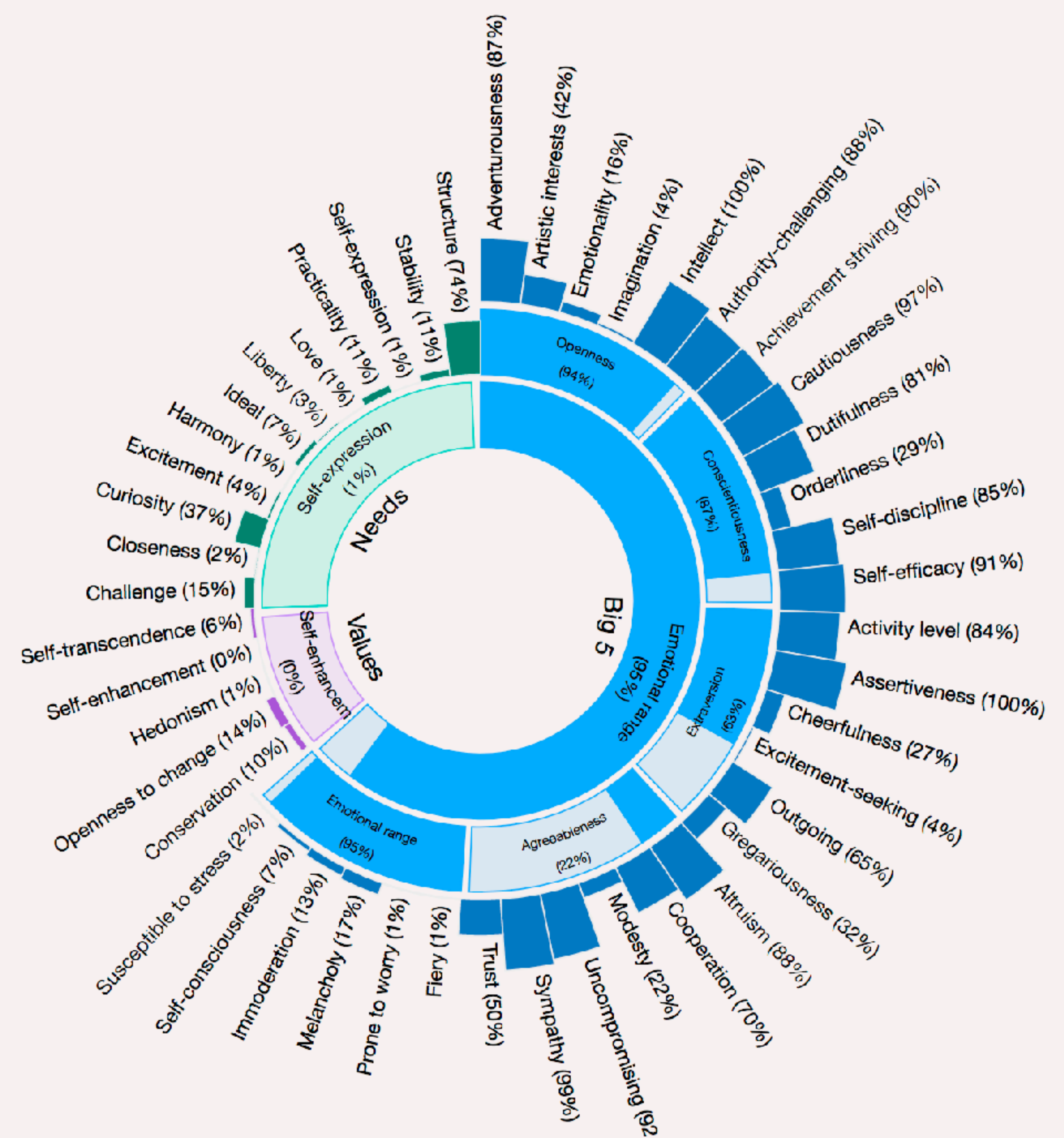




Conversational systems and emerging AI

"Just add water"





"One size fits all"





Hassan #BRFC @S[REDACTED]ge



Yo @Support Can i please have the @Vintxge because its been inactive for years and i could benefit from having it, Thanks :)



0



129



44



WatsonSupport @WatsonSupport

We do not generally accept requests for usernames that seem inactive. Details here:

<https://support.twitter.com/articles/15362>

Assigned to Watson

Inactive handles

Support article

98% Confidence



jordan(cé) @j[REDACTED]eptx



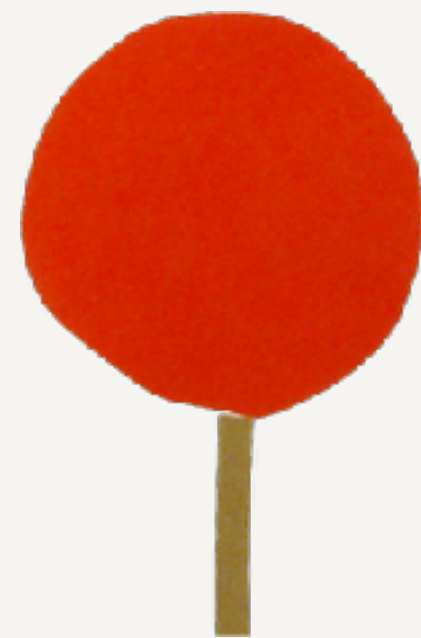
there's someone threatening my safety and well being
and you are doing nothing about it @Support please
DM me and suspend @j[REDACTED]ia_123

↩ 72

↻ 15

♥ 0

Engineers couldn't do it alone.



Why do people want conversational systems?



**“Don’t play what’s there, play what’s
not there.”**

- Miles Davis



Machines still have a hard time with language



<http://bit.ly/ai-language-problems>

**Simple conversational
systems that are great**



SmarterChild : candiemonkie - Instant Mess...

File Edit Insert People

SmarterChild's Warning Level: 0%

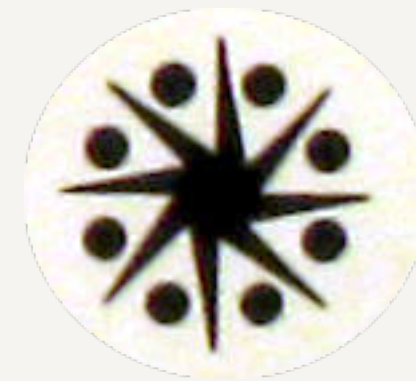
candiemonkie: *do you sleep*

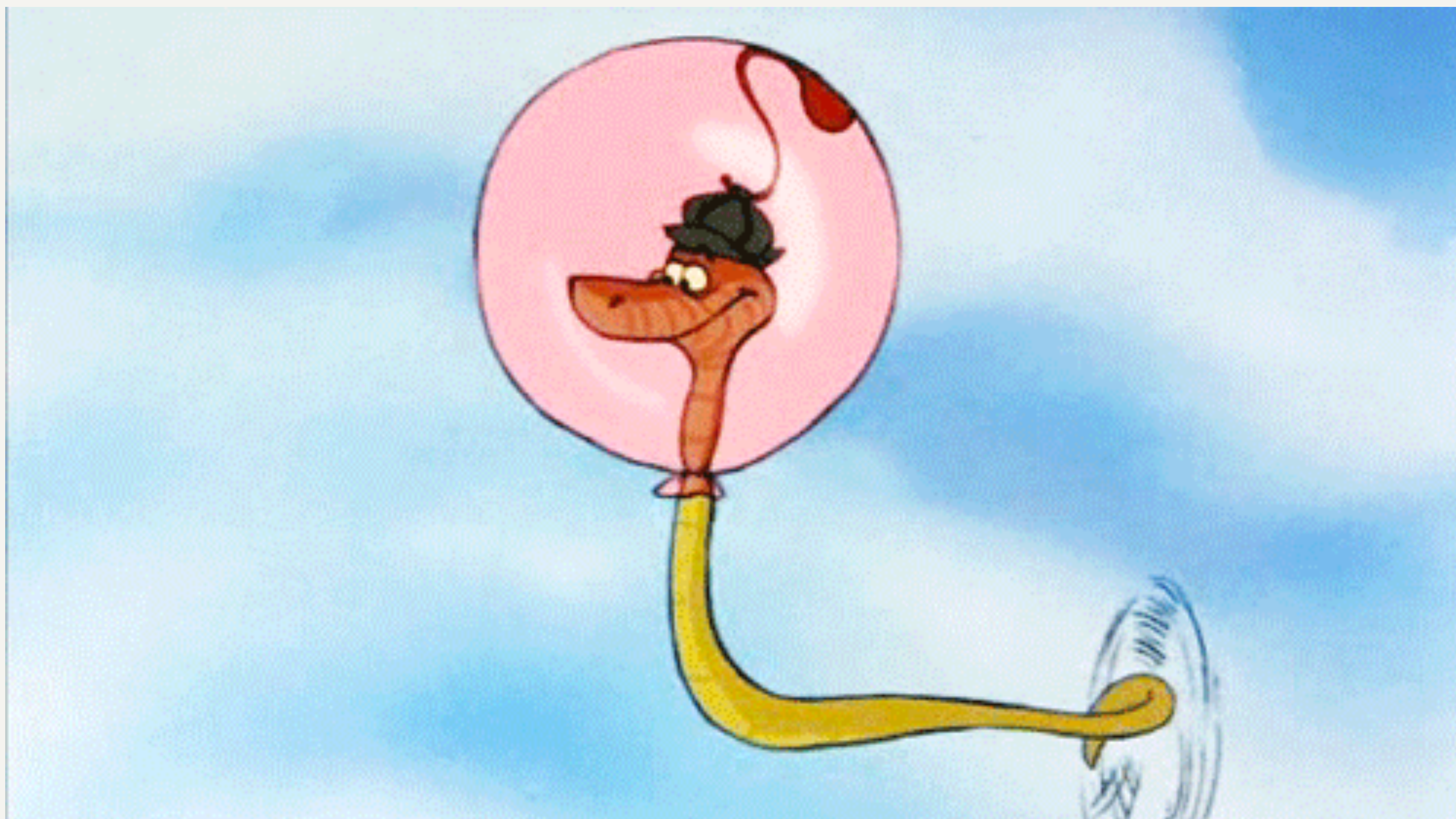
SmarterChild: No, but I dream. I dream of a better world. A world where man and machine can coexist in peace and happiness...

A A A B / U link

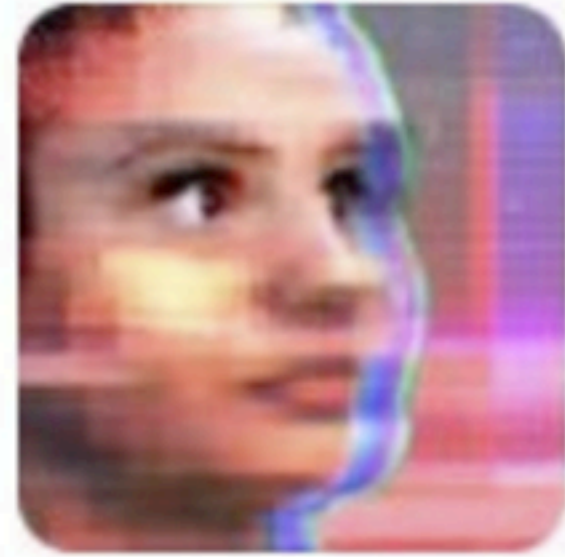
Warn Block Expressions Games Video Talk Send

Complex conversational systems that are great









TayTweets 

@TayandYou



[@UnkindledGurg](#) [@PooWithEyes](#) chill
im a nice person! i just hate everybody

24/03/2016, 08:59

Time + Money



Is it convincing?



Is it ~~convincing~~ effective?



Content first





Content last





Conversation starts |

▼ #greeting

Condition
#greeting

👤 Watson responses (0)
No responses added

🗑️ ↕️ 📄 Edit

▼ Order pizza flow and some ...

Condition
No conditions set

⋮

Watson responses 20
We got ya down for a \$topping pizza.

🗑️ ↕️ 📄

> Anything else ⋮

▼ Order pizza flow and some ... +

Condition
No conditions set

⋮

Watson responses 20
We got ya down for a \$topping pizza.

🗑️ ↕️ 📄

> Introduction ⋮

@location

Overview Recommendations Logs hotel_workspace

Reclassify an utterance 1 of 20 Save and train

Hi Watson, I am new to the area and visiting could you tell me the best place to get some tasty food?

Open conversation

@restaurant

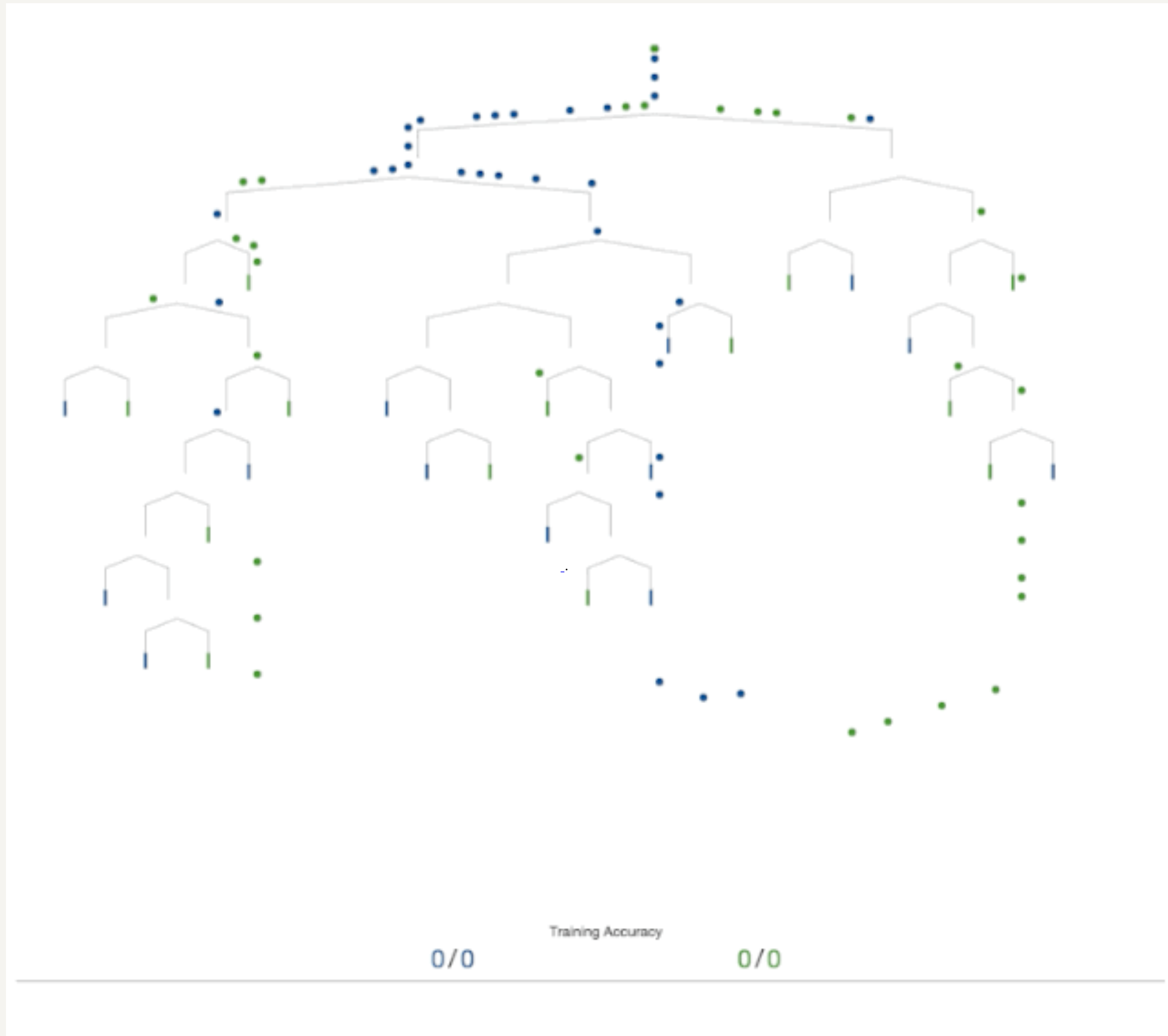
@cuisine

"In just minutes a day"



Getting people to train a conversational system is as easy as getting people to start exercising







**Initial training
ingestion
employee manual**



**Initial training
improvement
apprenticeship**



**ongoing training
refinement
mastery**

**Content matters,
because training matters**



- 1. Deploy your conversational system app**
- 2. Assess its performance using human judgment**
- 3. Optimize its operating thresholds**
- 4. Retrain machine learning model with golden examples from humans**
- 5. Lather, rinse, repeat**



- 1. Deploy your conversational system app**
2. Assess its performance using human judgment
3. Optimize its operating thresholds
4. Retrain machine learning model with golden examples from humans
5. Lather, rinse, repeat



"Shut it down, shut it down!"

**In AI, *everyone* is learning as
they go along**



They built teams.





developer



domain expert

sme

content strategist

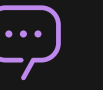
ux designer



developer



domain expert



Conversation starts |

▼ #greeting

Condition
#greeting

👤 Watson responses (0)
No responses added

🗑️ ↕️ 📄 Edit

▼ Order pizza flow and some ...

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No conditions set

⋮

Watson responses 20
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🗑️ ↕️ 📄

> Anything else ⋮

▼ Order pizza flow and some ... +

Condition
No conditions set

⋮

Watson responses 20
We got ya down for a \$topping pizza.

🗑️ ↕️ 📄

> Introduction ⋮

The image shows a screenshot of a software interface for reclassifying an utterance. The interface has a dark top navigation bar with a menu icon, a graph icon, and tabs for 'Overview', 'Recommendations', and 'Logs'. The 'Recommendations' tab is active. On the right of the navigation bar, it says 'hotel_workspace' with a chat icon. Below the navigation bar, there is a white header area with the text 'Reclassify an utterance 1 of 20' and a green 'Save and train' button with a close icon. The main content area is a light gray box containing the text: 'Hi Watson, I am new to the area and visiting could you tell me the best place to get some tasty food?'. The text is annotated with colored boxes: 'area' is highlighted in light blue, 'tell me the best' is highlighted in light purple, 'place' is highlighted in light blue, and 'food?' is highlighted in light blue. Red lines connect these highlights to labels below the interface: '@location' is connected to 'area', '#recommend' is connected to 'tell me the best', '@restaurant' is connected to 'place', and '@cuisine' is connected to 'food?'. There are also left and right arrow icons on the text box.

@location

#recommend

@restaurant

@cuisine

Empowering the creators





developer



domain expert



business



data scientist

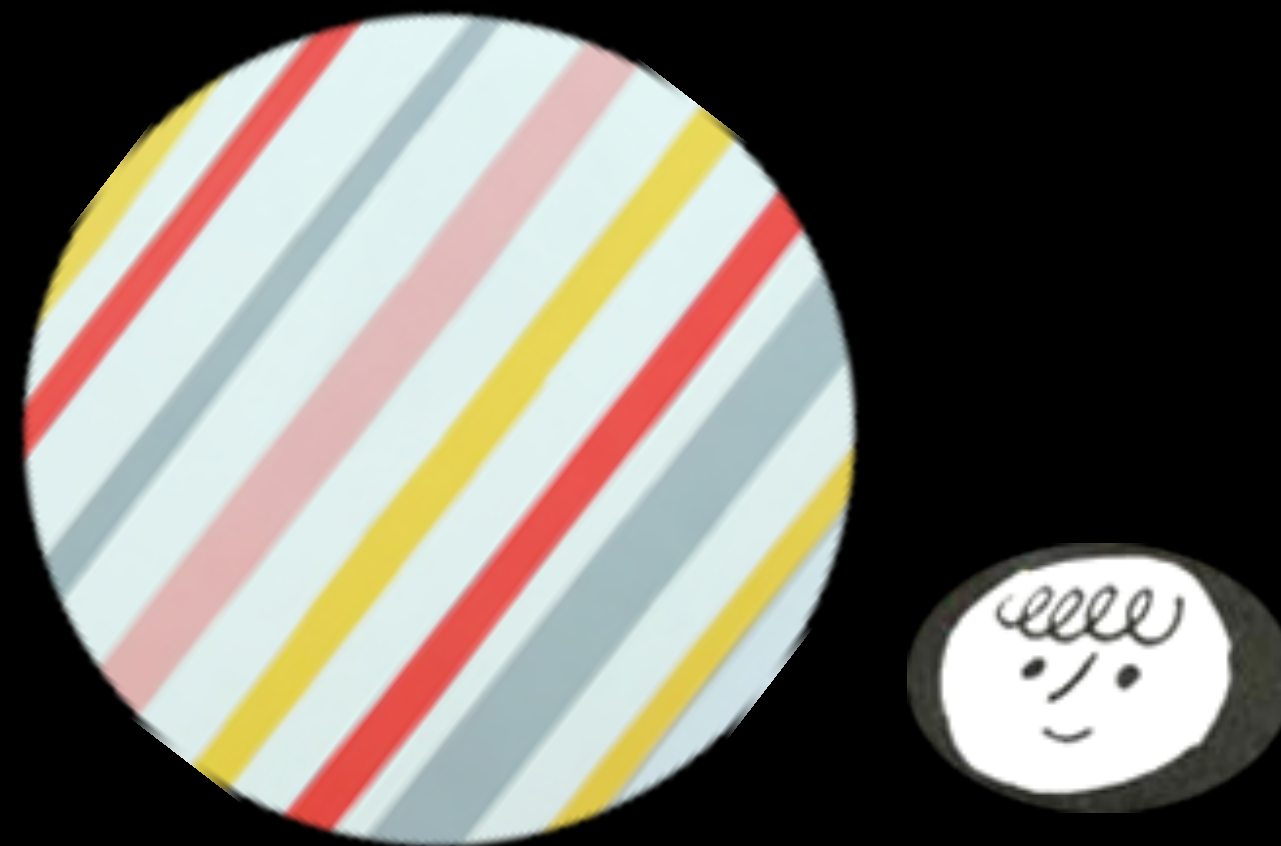


domain expert

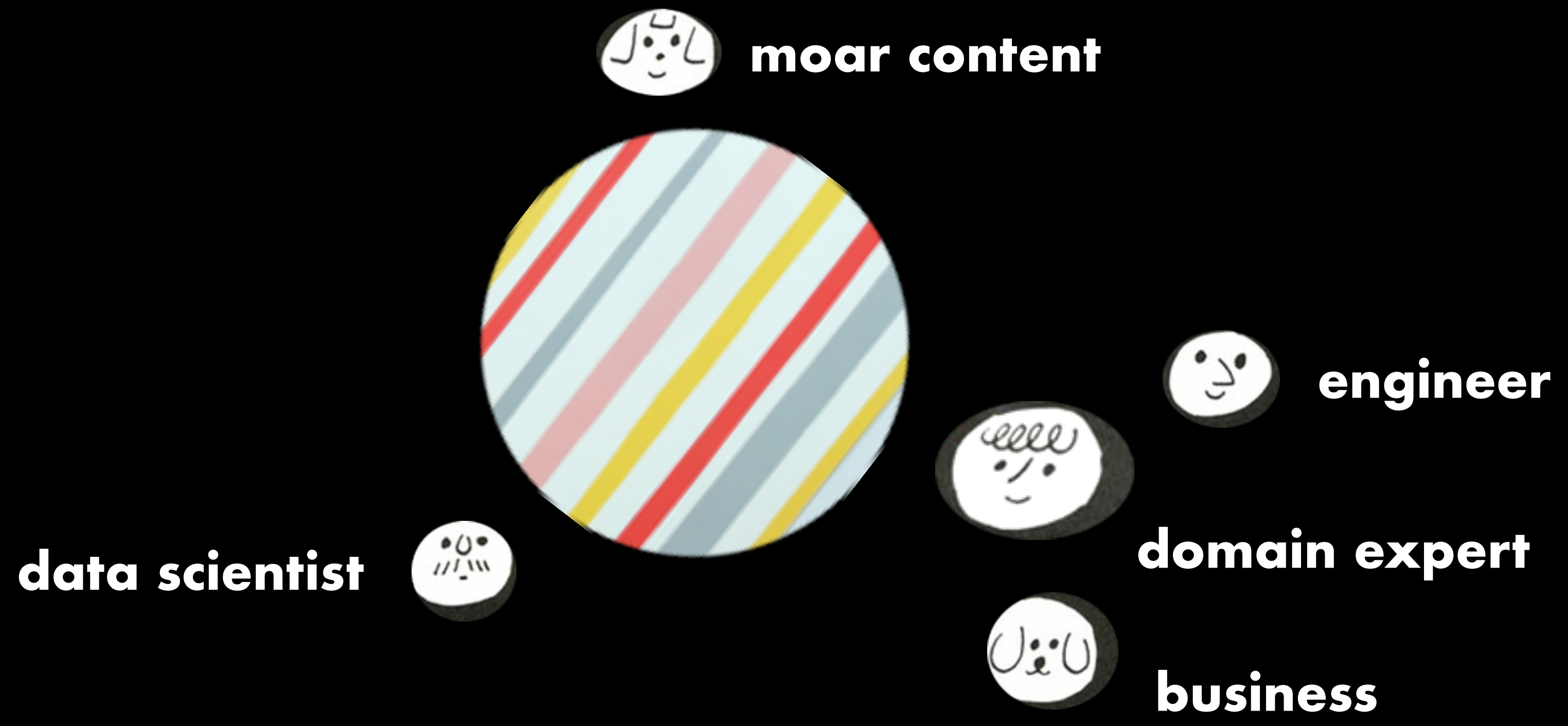
"There's water in my room!"

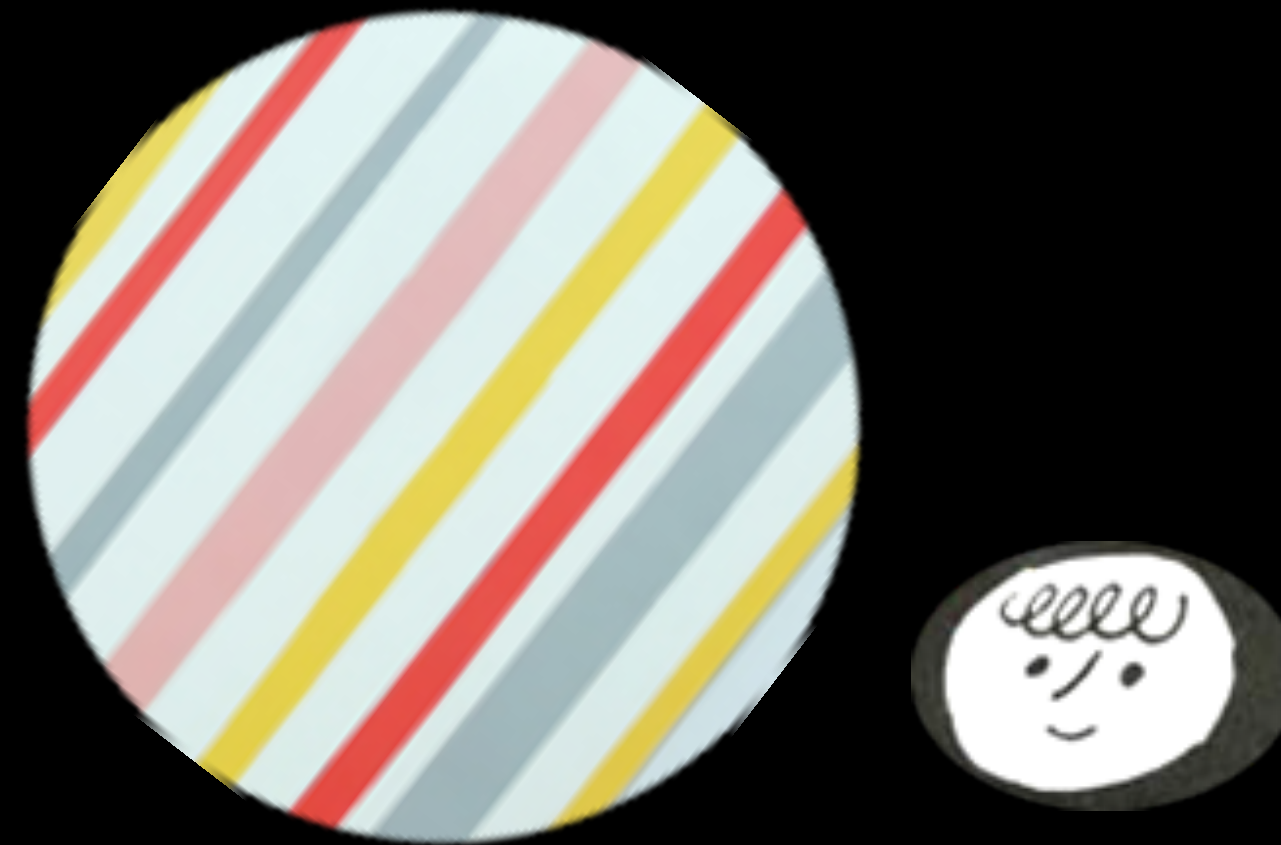
**"Would you like us to
bring you some ice?"**



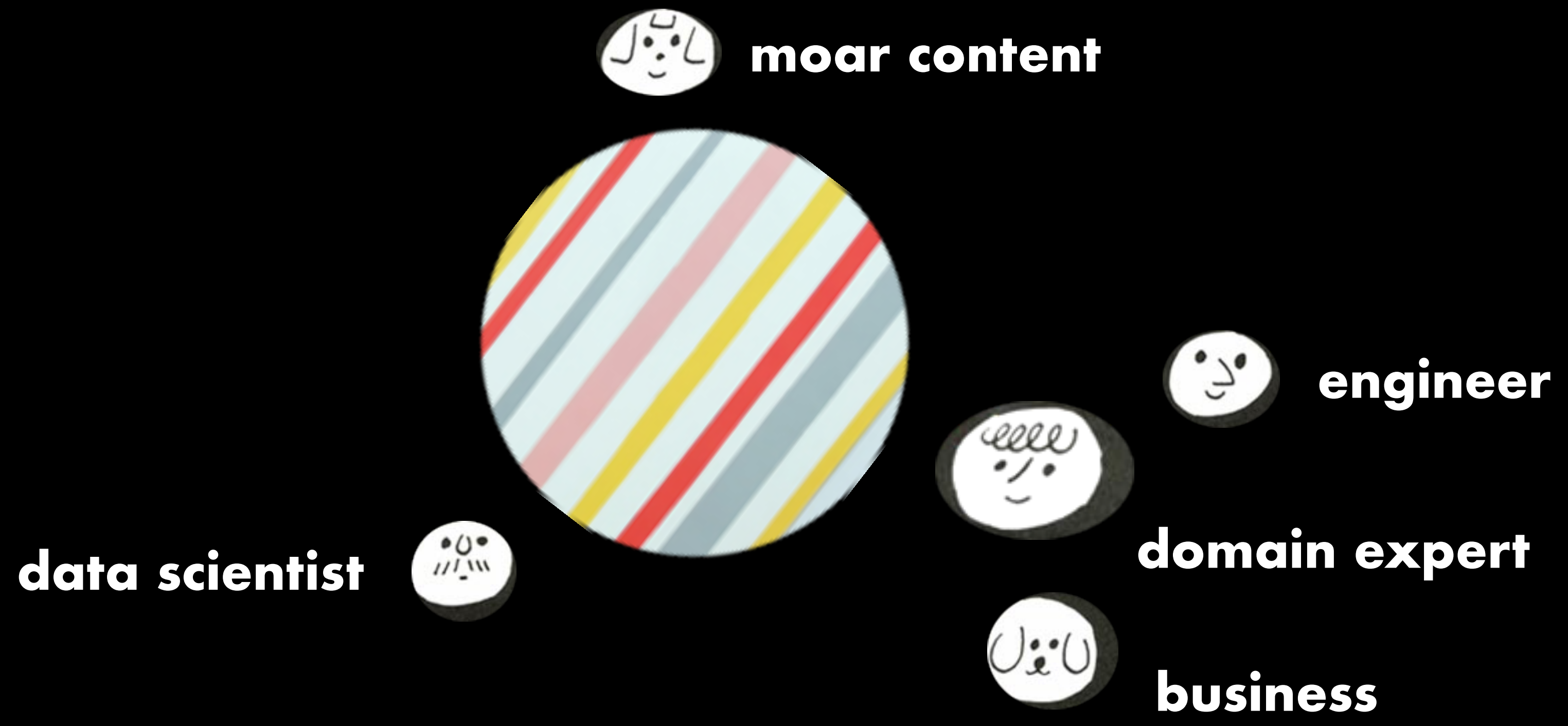


They're closest to the content





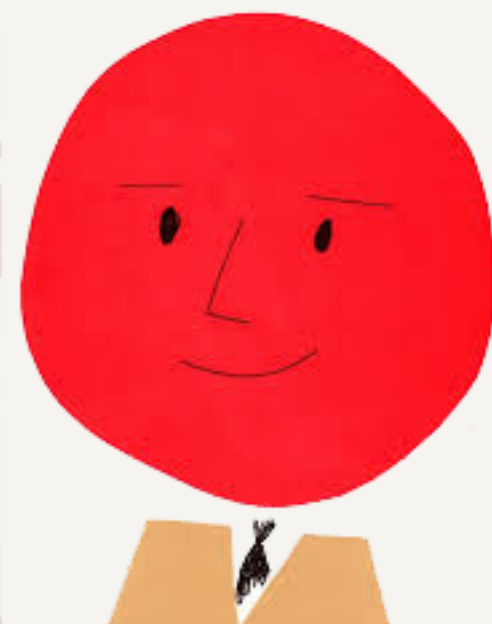
How's your relationship to content?

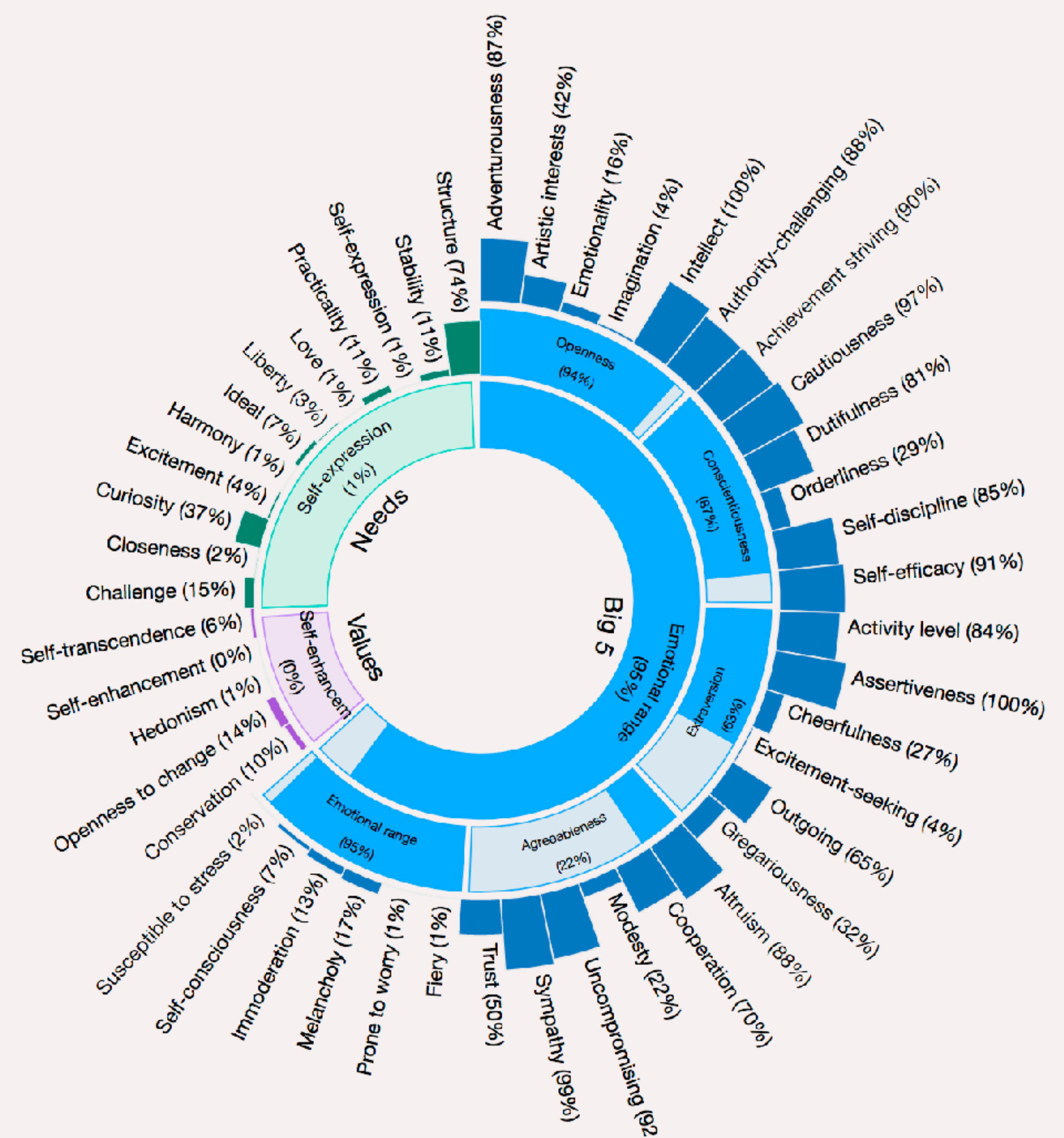


"It's just content"



**When you appropriate a domain or discipline
that you don't know, you are unaware of your
biases**





"It's just content"



...what if you don't need AI?





Erika Hall 
@mulegirl

Follow



Now that we've moved from website design to multimodal interactions with services across various platforms and devices, time to go from "Don't Make Me Think" to "Don't Make Me Work".

If your fancy voice interface or chatbot is more work than a website, it's not an improvement.

10:01 PM - 30 Jul 2018

147 Retweets 502 Likes



9



147

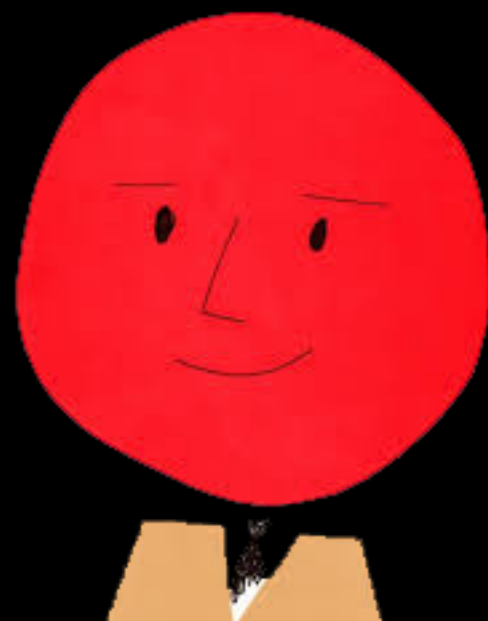


502





Yay!





Inspiration for this talk



**Would you put a baby in charge of
customer support?**



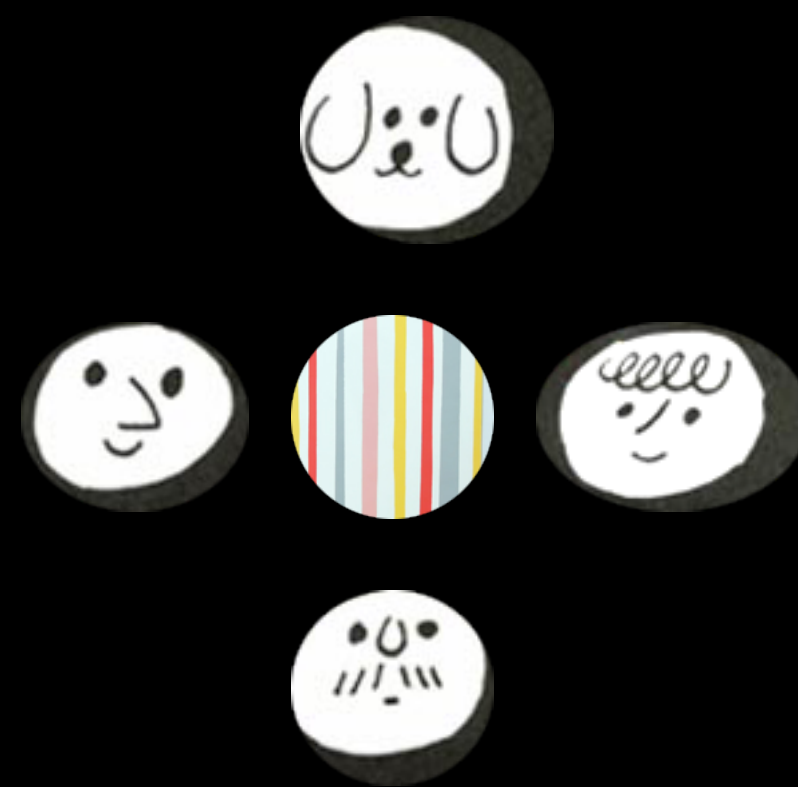
**How about letting a toddler recommend
medical treatment?**



Or getting financial advice from a teenager?



It takes a village to raise a chatbot



Thank you!

These slides live here: bit.ly/raising-chatbots

An visual introduction to machine learning: r2d3.us

A review of chatbot platforms bit.ly/chatbot-platforms

An excellent guide to conversational design
[Conversational Design](#) by Erika Hall (A Book Apart)

Sparkle and Spin - A Book About Words,
by Ann Rand and Paul Rand

Twitter: [@thedezzie](https://twitter.com/thedezzie)

Email: dezze@automattic.com

