



6th - 8th April 2017 Missenden Abbey, Gt Missenden, Bucks







John Hackston Head of Thought Leadership, OPP



A quick quiz





Do you search for information on Google?



Have you ever bought anything on the internet?



Have you ever booked travel or accommodation on the internet?



Do you have Siri on your phone or Cortana on your computer?









Today's agenda



- > What AI is (and isn't)
- > How AI is changing what you do
- > What you can do that Al can't
- > Al in personality assessment/feedback
- > Adding personality to Al
- > Ethical issues
- > A BIG question



What is "Artificial Intelligence"?







What is "Artificial Intelligence"?







What is "Artificial Intelligence"?



- Perceiving the environment and taking actions to maximise success
 Mimicking of cognitive functions
 Examples include:
 - Personal assistants in phones and computers
 - Intelligent Tutoring Systems in education
 - Spotting fraud via unusual spending patterns
 - Medical diagnosis and clinical decision support
 - Data mining
 - Email spam filter
 - "Intelligent" posting of articles on social media
 - Computer-aided interpretation of images, e.g. in medicine
 - Video game bots
 - Self-driving cars
 - Automated assistants for online enquiries
 - Industrial robots



Small group discussion



- > How has Al already changed what you do and how you do it?
- > How do you expect it to change your life further?
- > Think about both:

Your everyday life



Your role as a type practitioner





As a type practitioner, what can you do that AI can't?

In your groups, write down:

- What you can do that AI can't
- What AI can do that you can't
- Now review and amend the other groups' ideas





theguardian

Robots 'could replace 250,000 UK public sector workers'

Reform thinktank says sector could be 'the next Uber' and staff should embrace the gig economy amid rise in automation

Robots will destroy our jobs - and we're not ready for it

Two-thirds of Americans believe robots will soon perform most of the work dor by humans but 80% also believe their jobs will be unaffected. Time to think aga

Rise of robotics will upend laws and lead to human job quotas, study says

Report predicts rise in robotics will usher in 'industrial revolution 4.0' altering working practices and legal frameworks

Millions of UK workers at risk of being make the rich even richer replaced by robots, study says

Robots won't just take our jobs - they'll make the rich even richer

Robotics and artificial intelligence will continue to improve - but without political change such as a tax, the outcome will range from bad to apocalyptic

Workers in wholesale and retail sectors at highest risk from breakthroughs in robotics and artificial intelligence, PwC report finds





- > Adaptive personality questionnaires
- > Using external data





Take personality test

Psycholinguistic trait prediction

Write or paste some text in the box below to obtain a prediction. There is no minim Big 5 Personality (Predictions are expressed as percentiles) Please also tag the source of the text you are submitting using the selection box pr

· Have you ever booked travel or accommodation via the internet?

· Do you have Siri on your phone or Cortana on your computer? If you answered 'yes' to any of these questions, then you are using a form of artificial intellige

the media is full stories about the future consequences of AI (for good or ill), the reality is tha And this means that it is useful if Al can understand something about our personality and bel to us as well

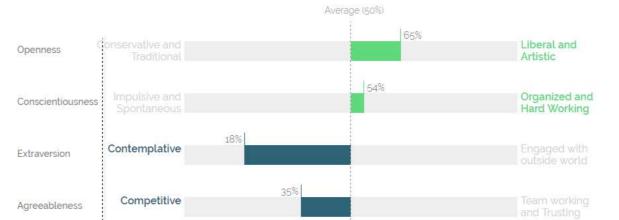
Of course, there are many ways of understanding human personality, but the type approach, Indicator (MBTI), is increasingly being used in research to help robots work more effectively v humans react to robots; this is then used as a guide to change the robot or its behaviour. Else user's personality preferences, and results then used to customise an Al agent's personality.

pieture: MDTI, becad algorithma have been used to belo rebet 'teems' work mare effectively i

Other

Psycho Age

Neuroticism



Openness to experience describes a dimension of personality that distinguishes imaginative, creative people from down-to-earth, People who use language of this kind tend to be intellectually curious and appreciative of what they consider beautiful, no matter what others think. Their imagination is vivid

44%

Conscientiousness concerns the way in which we control, regulate, and direct our impulses.

Laid back and

and makes them more creative than many others.

Relaxed

People who use language of this kind tend to be random and fun to be around but can also plan and persist when life requires it. Depending on the situation, they can make People will quick decisions or deliberate for longer if necessary.

Extraversion is marked by pronounced engagement with the external world, versus being comfortable with own company,

People who use language of this kind tend to be quiet and somewhat withdrawn. They don't need lots of other people around to have fun, and can sometimes find that people are tiring

Agreeableness reflects individual differences in concern with cooperation and social harmony.

People who use language of this kind tend to be 25-29 years old.

People who use language of this kind tend to find it difficult to get along with others when they first meet them. They might be suspicious of others' motives in this situation

Conservative and



Psycholinc

Big 5 Personality (Predictions

Openness

Conscientiousness

Write or paste some text in th Please also tag the source of

- · Have you ever booked travel (
- · Do you have Siri on your phon If you answered 'yes' to any of t the media is full stories about the

Contemplative Extraversion And this means that it is useful to us as well Of course, there are many ways Competitive Indicator (MBTI), is increasingly Agreeableness humans react to robots: this is t user's personality preferences, aiatura: MDTL bacad algarithms Laid back and Neuroticism Relaxed Other

Age 🕝

Openness to experience describes conventional people.

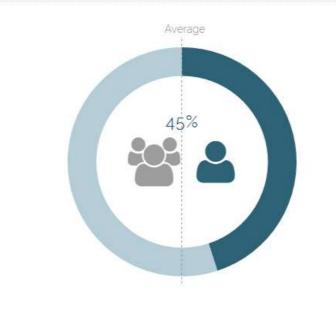
People who use language of this kind tend to and makes them more creative than many or

Conscientiousness concerns the wa People who use language of this kind tend to quick decisions or deliberate for longer if ne Extraversion is marked by pronounce People who use language of this kind tend to

people are tiring.

Agreeableness reflects individual d People who use language of this ki People who use language of this kind tend t

Leadership Potential @



Your personality is 45% similar to that of a leader

Jungian Personality Type @

Introverted iNtuitive Thinking Judging

INTJs are very analytical individuals. They are more comfortable working alone than with other people, and are not usually as sociable as others, although they are prepared to take the lead if nobody else is up to the task, or they see a major weakness in the current leadership. They tend to be very pragmatic and logical individuals. often with an individualistic bent and a low tolerance for spin or rampant emotionalism. They are also commonly not susceptible to catchphrases and commonly do not recognize authority based on tradition, rank or title. Hallmark features of the INTJ personality type include independence of thought, strong individualism and creativity. Persons with this personality type work best given large amounts of autonomy and creative freedom. They harbour an innate desire to express themselves; that is to be creative by conceptualizing their own intellectual designs. Analyzing and formulating complex theories are among their greatest strengths.

Take more psychometric tests



Dovada allia Big 5 Personality (Predictions

6TH WORKSHOP ON COMPUTATIONAL

APPROACHES TO

SUBJECTIVITY, SENTIMENT AND

SOCIAL MEDIA ANALYSIS

WASSA 2015

Personality Traits on Twitter

How to Get 1,500 Personality Tests in a Week

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Conclusions

We use the self-reported Myers-Briggs type of Twitter users to collect a large corpus of tweets and train predictive models for each dimension.

Our results show that we can model the I-E (INTROVERT-EXTROVERT) and F-T (FEELING-THINKING) distinction fairly well. Learning the other two dimensions turns out to be hard. We find that linguistic features account for most of the predictive power of our models, but that metainformation, such as gender, number of followers, statuses, or list membership, add valuable information.

The distribution of Myers-Briggs personality types observed in our Twitter corpus differs from the general population, however, the data reflects real language use and sample sizes with sufficient statistical power. Our results suggest that while theoretically less well-founded than traditional approaches, large-scale, open-vocabulary analysis of user attributes can help improve classification accuracy and create insights into personality profiles.

aina

e comfortable usually as sociable ead if nobody else he current gical individuals. ce for spin or ot susceptible to hority based on I personality type ilism and creativity. large amounts of innate desire to eptualizing their g complex

People who use language of this kind tend t





and personality theory to infer attributes from a person's unstructured text.

P Resources:

API Reference

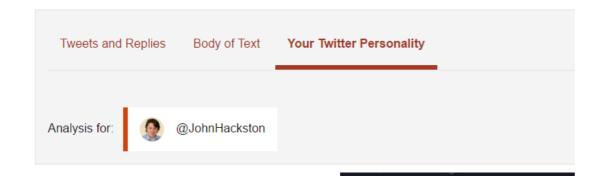
<u>Documentation</u> Fork on Github

Start free in Bluerr

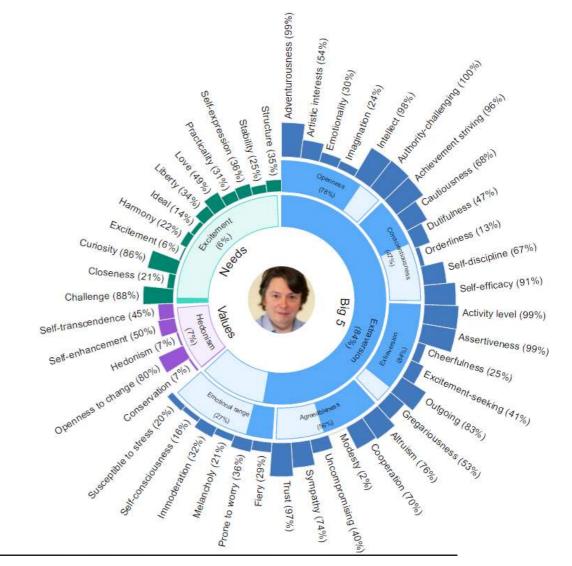
Try the service

You need text written by the person whose personality you're interested in. It should contain words at and responses.

You can play with the demo with as little as 100 words, but for a more accurate analysis, you need mo



Sunburst Chart Visualization





> Adaptive personality questionnaires

- > Using external data
- > Gamified assessments
- > Biometric data
- > Chat







man: What is my personality type?

etermine your Personality ype! Take the Official ALICE nneagram personality test. /hat kind of person are you? hat with the C.L.A.U.D.I.O. ot and find out!

only \$9.99

Buy Now
Click here for unlimited chat wit
the CLAUDIO bot for a full
month! Note: CLAUDIO is no
longer a subscription service. You
will be charged only once.

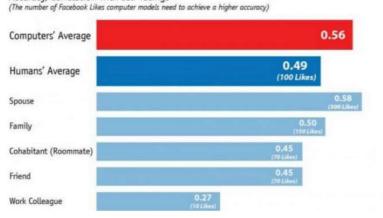


I have not made up my mind about you yet. But please keep chatting with me. In the course of our conversation I will ask you questions and I'ry to determine your personality type. Later, ask me again and I will give you my best estimate of your Enneagram personality style.

Note: Chat robot subscription includes unlimited chatting with the A. I. for one month. Upon navment

http://www.alicebot.org/claudio.html

chatting with the bet, you out which if the roles basis of the lone basis Gives Competition. Area of the Gives Competition. Area of Mediately you med clearly resemble. Unlike other proresemble. Unlike other an ordinary other conversation, and other properties of delay, and makes up his rapation in the conversation, als, "What is my personal actions of your types. The properties of your types. The properties of your types are your personality type be your personality type be



Accuracy, correlation with self-ratings

 $Computers \ have \ learned \ how \ to \ assess \ human \ personality \ better \ than \ friends \ or \ family. \ Photo \ courtesy \ of \ University \ of \ Cambridge$





AI and personality feedback



> Indexing and using existing content

> Expert interactive feedback

> Incorporating personality feedback into everyday life



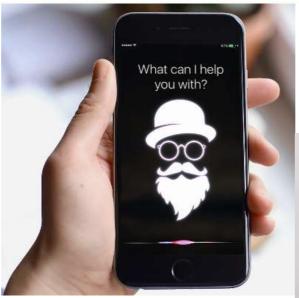


Adding personality to AI



- > Personal assistants
- > Social care robots





Robot carers for elderly people are 'another way of dying even more miserably'

Michele Hanson

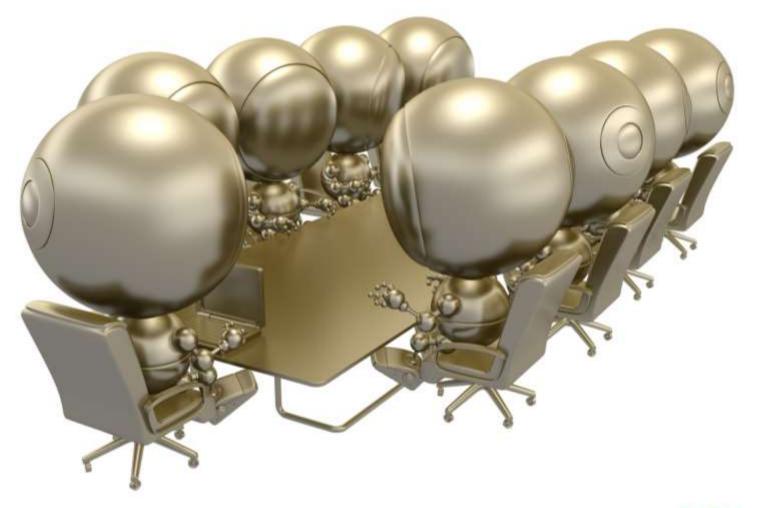
Japan has a robot with 24 fingers that can wash hair, while in Europe we're getting a 'social companion robot'. I'm going off for a little cry



Adding personality to AI



- > Personal assistants
- > Social care robots
- > Robot teams





The MBTI® model as a basis for AI



















































Ethical issues



What are the ethical issues (if any) in:

- > Using AI for personality assessment
- > Using AI in feedback
- > Using the MBTI model to add personality to AI (e.g. social care robots)





The simulation hypothesis



How do you know you exist?

Nick Bostrom

- > Will human civilisation(s) be able to run simulations?
- > Will any of these run ancestor simulations?
- > Then almost all people with our experiences are simulations



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The MBTI® model as a basis for... intelligence?

















































Thank you! john.hackston@opp.com

