



## Lingua Franca – A Design Language for Human-Centered AI

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### Abstract:

Standard Notation has built human-centered AI for some of the world's leading companies and innovators. In this talk, we introduce ‘Lingua Franca’, our design language for human-centered AI. Lingua Franca is the culmination of Standard Notation’s work designing AI solutions for companies spanning industries, from finance to insurance, logistics, asset tracking, consumer apps, data science tools, and deep technology. Lingua Franca includes a step-by-step design process that can be adopted by any company seeking to transform their digital strategy around human-centered AI, through a set of tools and techniques that include problem definition, ideation, iterative design, data exploration, and ethics. We start by describing human-centered AI for those new to it. We then describe how AI technology has consistently failed to be human-centered, by placing other values above those of its users. We then outline Lingua Franca, and how to integrate its ideas into your organization or team in order to create technology that is more empathetic, ethical, interpretable, and ultimately more value-aligned with humans.

### Biography:

Abhay Agarwal is a Machine learning researcher, designer, lecturer. He is the creator of ‘Designing Machine Learning’ a course at Stanford Hasso Platner Institute of



Design (d.School). Prior to joining Stanford he worked on AI technologies as a Research Fellow at Microsoft Research. He holds two patents in computer-vision-based blind assistance, and has published his work to conferences such as CHI.

### Publication of speakers:

1. H. Maslow, “A Theory of Human Motivation”, Start Publishing LLC, 2012
2. Deborah Henderson, Susan Earley, et al. “DAMA-DMBOK: Data Management Body of Knowledge: 2nd Edition” DAMA International, 2017
3. Yves Hilpisch, “Artificial Intelligence in Finance: A Python-based Guide”, O’Reilly, 2019
4. Web 1 <https://www.mayoclinic.org/diseases-conditions/osteoarthritis/symptoms-causes/syc-20351925> Accessed 17th oct, 2019

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