



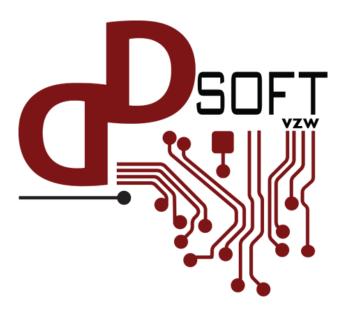


Hi, My name is!

- Dennie Declercq
- @DennieDeclercq
- #DreamingIsBelieving
- President & Developer DDSoft







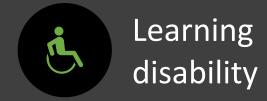
And I am NOT an AI engineer



- Primer into Accessibility
- Microsoft Cognitive Services API overview
- Real world problems
- The real inspiration
- Real world inspiration
- Al For Good
- Inspirational trigger
- How to get started?
- Wrap up
- ∘ Thanks || Q&A

PRIMER INTO ACCESSIBILITY

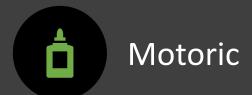
Kind of disabilities











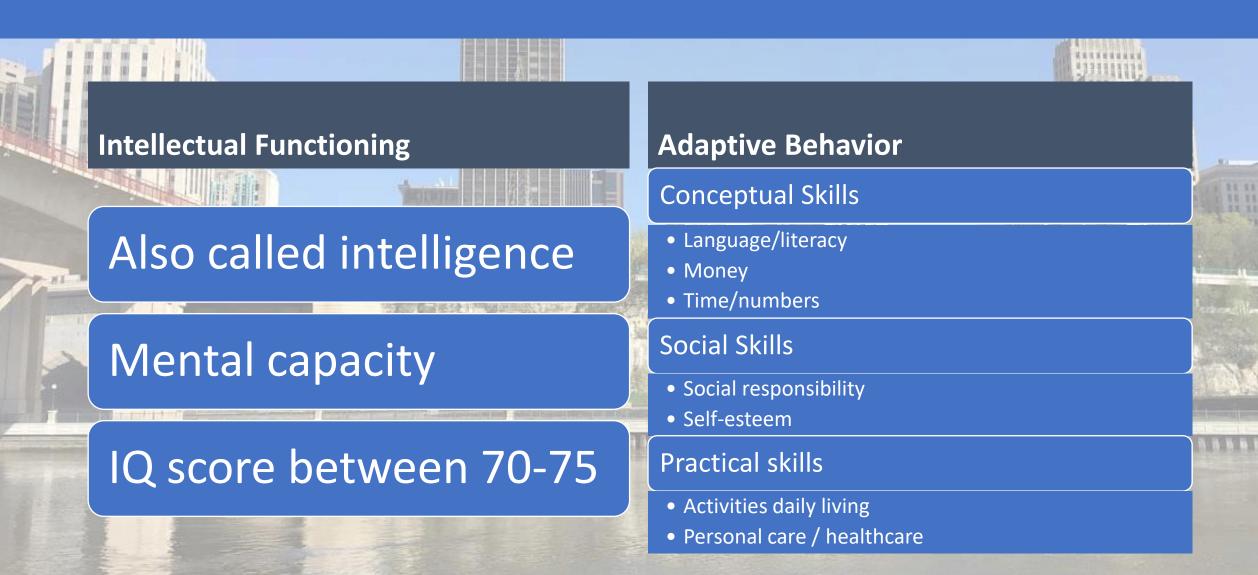


Learning disability?

Significant limitations in both:

- Intellectual functioning
- Adaptive behavior

Learning Disability





Principles of Inclusion

- Same activities
- Same district
- Work Together
- Adjustments par person

Digital Difficulties for PWD.

Learning Disability

- Read
- Understand

Autism

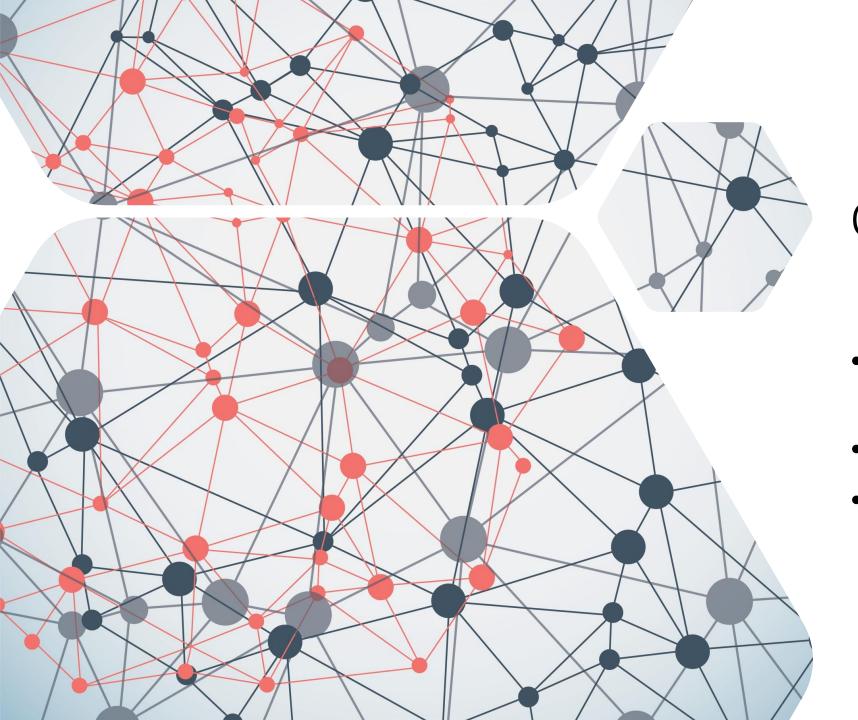
- Understand
- See structure

Blindness or vision loss

- Decreased ability to read
- Decreased ability to navigate

Auditory disabilities

- Hearing notifications
- Following movies without audio description.

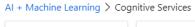


Our Focus

- People with Learning disabilities
- Autism
- People with mental health situations

MICROSOFT COGNITIVE SERVICES API'S

GETTING STARTED WITH COGNITIVE SERVICES





Bina Autosugaest

Microsoft

Help users complete queries faster by adding intelligent type-ahead capabilities





Bing Custom Search

Microsoft

Create a custom search engine with ad-free results



Bing Entity Search

Microsoft

Recognize and classify named entities, and find search results based on them



Bing Search

Microsoft

Enable safe, ad-free search for your users with Bing, a leading search



Help users identify and fix word breaks, slang, names, homonyms, and brands

Bing Spell Check

Microsoft





Computer Vision

Microsoft

An Al service that analyzes content



 \odot



Content Moderator

Microsoft

An Al service that detects unwanted





Custom Vision

Microsoft

An Al service and end-to-end platform for applying computer vision to your specific scenario





Face

Microsoft

An Al service that analyzes faces in images





Speaker Recognition

Microsoft

An Al service that enables you to identify individual speakers or use speech as a means of verification



Speech

Microsoft

An Al service that enables you to embed human-like speech capabilities into your apps



On A Maker

Microsoft

An Al service that enables you to create a bot from your data in minutes



Text Analytics

Microsoft

An Al service that enables you to unlock insights from natural language text using sentiment



Translator Text

Microsoft

An Al service that enables you to easily translate text between more than 60 languages





Personalizer

Microsoft

An Al service that delivers a personalized user experience





Language Understanding

Microsoft

Teach your apps to understand commands from your users



Ink Recognizer (Preview)

Microsoft

An Al service that recognizes digital ink content, such as handwriting, shapes, and document layout



Immersive Reader (preview)

Microsoft

An Al service that helps users read and comprehend text



Form Recognizer (preview)

Microsoft

The Al service that extracts information from documents



Anomaly Detector (preview)

Microsoft

An Al service that helps you foresee problems before they occur



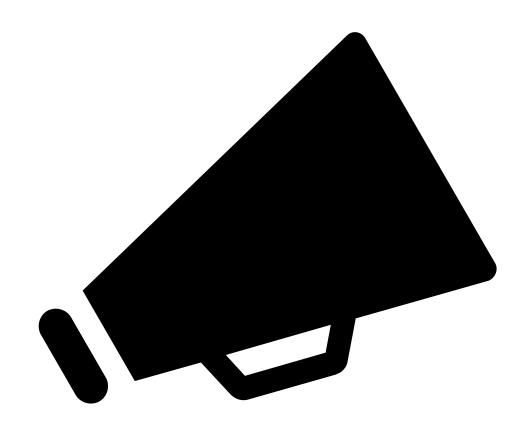
Cognitive Services

Microsoft

Connect powerful AI to your apps



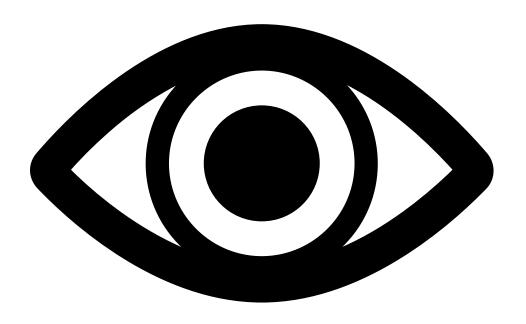




Speech Service

- Text-to-speech
- Custom Voice



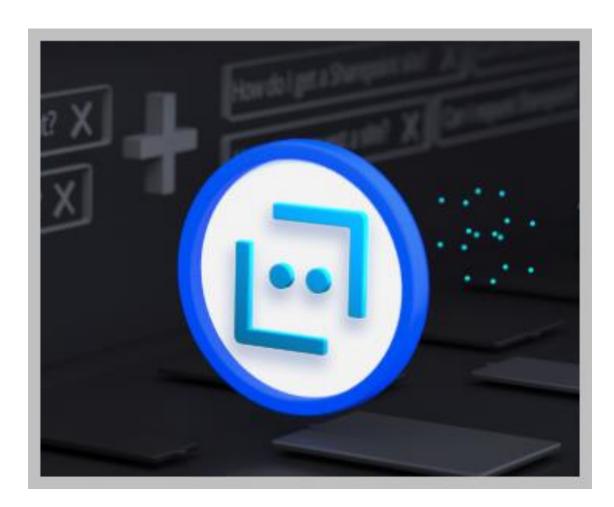


Vision API

- Analyzes images
- Let PWD take pictures and tells what it is.

Face API

- Detect Emotion
- Detect Facial Hair
- Detect Smile
- Detect Age



BOT Service

- Provide BOTs
- BOTs really can assist PWD
- Make clear guidelines



Immersive Reader

- Accessibility features like:
 - Reading aloud websites
 - Linking pictographs to websites
 - Text appearance options



Translator Service

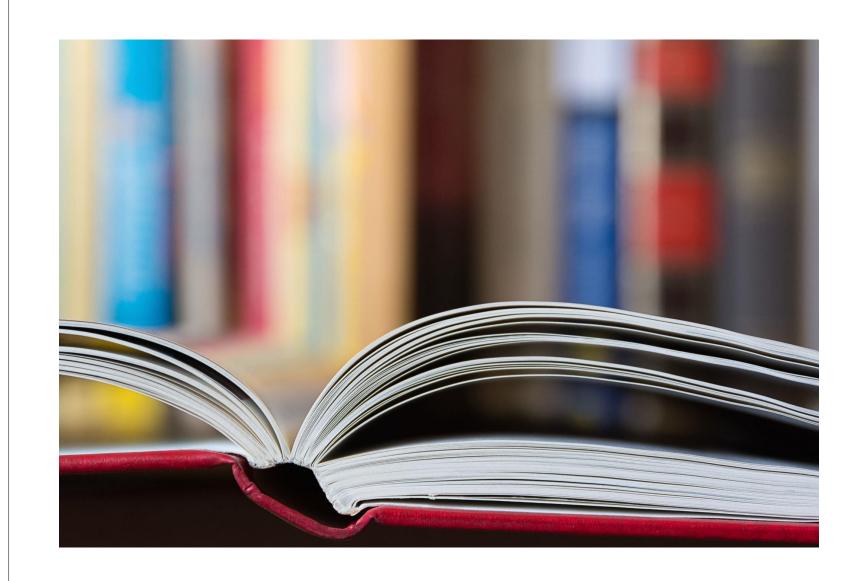
- Translation
- Language Detection



PROBLEMS

Literacy

- Reading information
- Understandin g written text
- Recognizing money
- ∘ Math



Executive Functions

- Planning 'simple' tasks
- Making choices
- Concentration

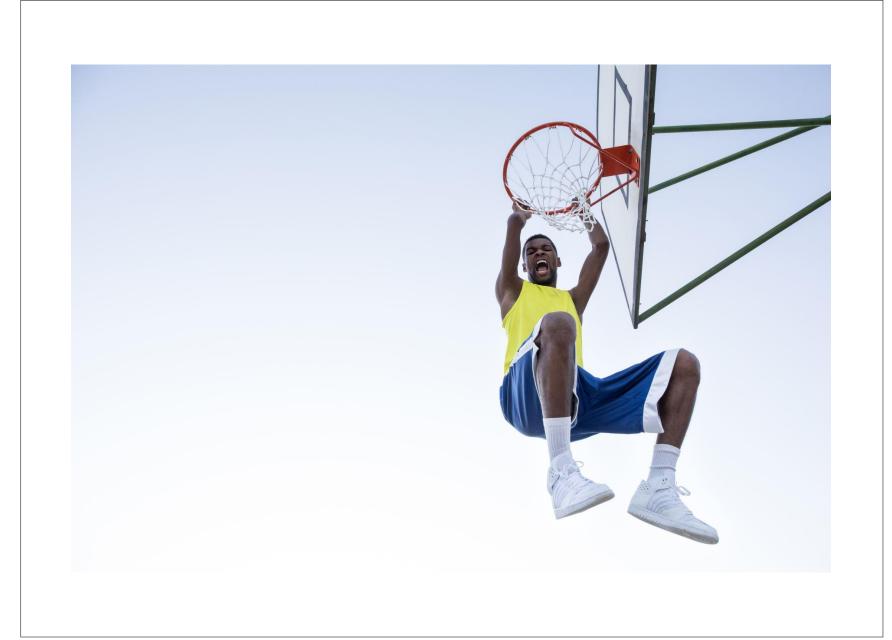


'FEELING'

"I have no elbows, I don't feel if I am going over your borders, and if this annoys you"-Dennie Declercq

Self-trust

- Self-trust canbe hard
- Can I really do this?
- Will this really work?



AS YOU SEE...





THE REAL INSPIRATION





The Immersive Recipe

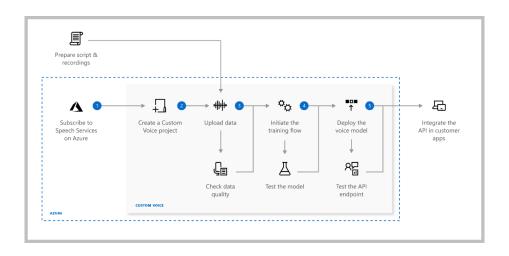


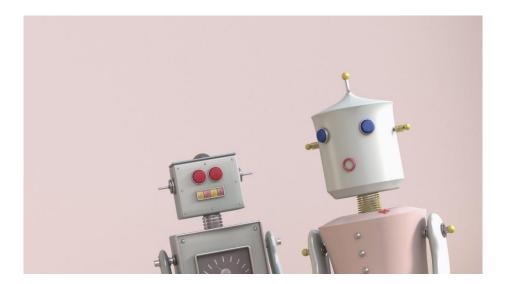
My vision barber

Custom Vision Face API

```
[Newtonsoft.Json.JsonProperty(PropertyName="beard")]
public double Beard { get; set; }
```





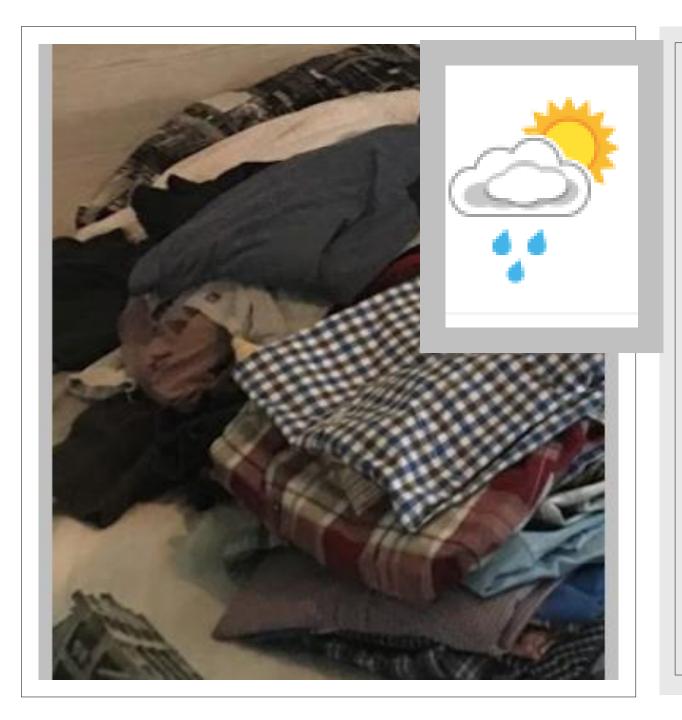


My Artificial Mom

Text To Speech

BOT Service

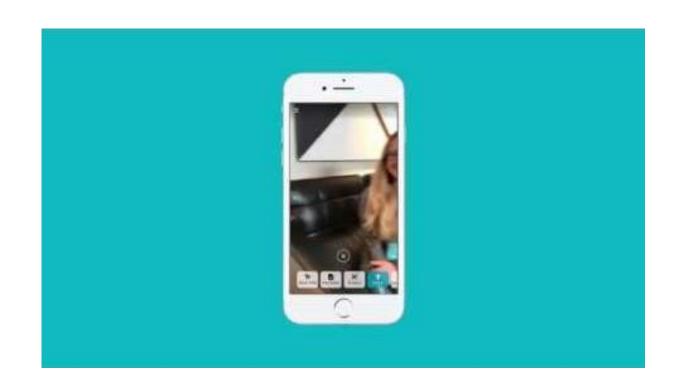
Custom voice



The AI wardrobe

Graph API Computer Vision

REAL WORLD INSPIRATION



MICROSOFT SEEING AI https://go.ddsoft.be/msftseeingai



MICROSOFT TRANSLATOR https://go.ddsoft.be/msfttranslator



HELPICTO https://go.ddsoft.be/helpicto

People can add images or adjust content as needed



THANK YOU POWERPOINT! HTTPS://GO.DDSOFT.BE/AIPPT



CALL: AI FOR ACCESSIBILITY

DEMO: (extra) inspirational Trigger "The Future of Web Accessibility"

Research	In accessibility / People with disabilities
Learn	Microsoft Cognitive Services
Get	Further inspired
Play	With existing tools

Getting started

WRAP UP

Links & References

- Microsoft Seeing Al: https://go.ddsoft.be/msftseeingai
- Helpicto: https://go.ddsoft.be/helpicto
- Microsoft Translator movie: https://go.ddsoft.be/msfttranslator
- Al in PowerPoint: https://go.ddsoft.be/aippt
- Microsoft Al for Good: https://go.ddsoft.be/msftai
- Demo: 'TextHelp' on GitHub: https://go.ddsoft.be/texthelp



Thanks! | | Q&A

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- @DennieDeclercq
- #DreamingIsBelieving