

Azure Community Conference 2021

India's largest Azure Conference



Title Sponsor

Gold Sponsor





Community Partner







Dennie Declercq

President, Developer, MVP @ DDSoft





Al for The Better (Life of People with Disabilities)

Lightning Edition



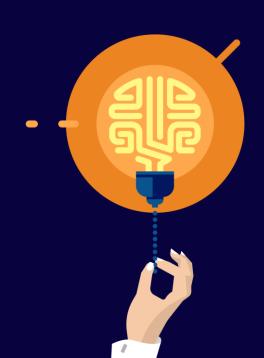




- Primer into Accessibility
- Microsoft Cognitive Services API
- Problems that People With Disabilities can have
- Demo's, Demo's, Demo's!



Primer into Accessibility



Kind of disabilities













Learning disability

Significant limitations in both:

- Intellectual functioning
- Adaptive behavior

Learning Disability

Intellectual Functioning

Also called intelligence

Mental capacity

IQ score between 70-75

Adaptive Behavior

Conceptual Skills

- Language/literacy
- Money
- Time/numbers

Social Skills

- Social responsibility
- Self-esteem

Practical skills

- Activities daily living
- Personal care / healthcare

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

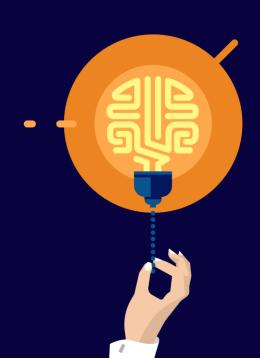
People with Learning disabilities

Autism

People with mental health situations



Microsoft Cognitive Services API's



What is Microsoft Cognitive Services?



Part of Microsoft's AI platform:
No need-to-know AI
No need-to-know deep math algorithms
Just preform easy AI calls
Possibilities: REST style/ SDK Style*

*Not for each Cognitive Service (yet)



Speech Service

Text-to-speech

Custom Voice



Vision API

Analyzes images

Let PWD take pictures and tells what it is.

Face API

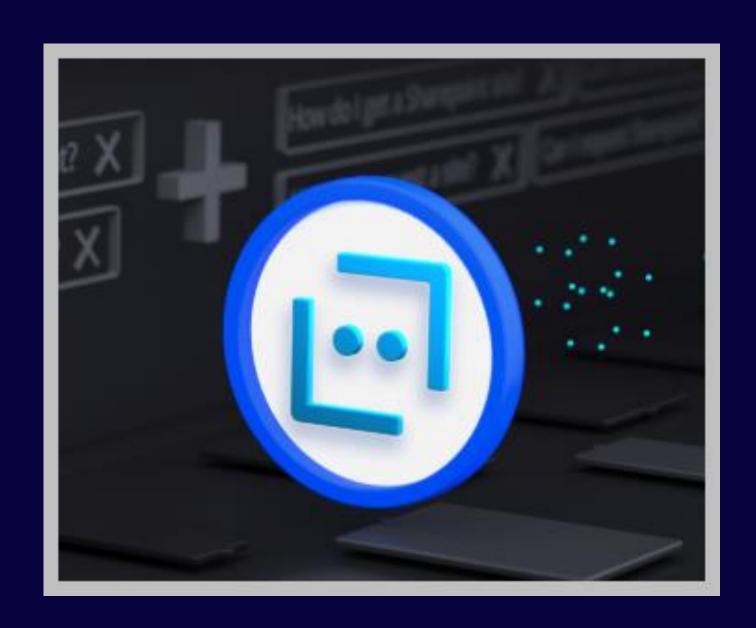


Detect Emotion

Detect Facial Hair

Detect Smile

Detect Age

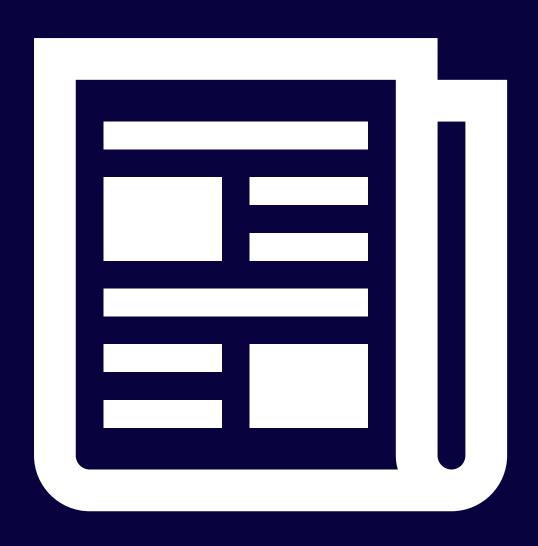


BOT Service

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





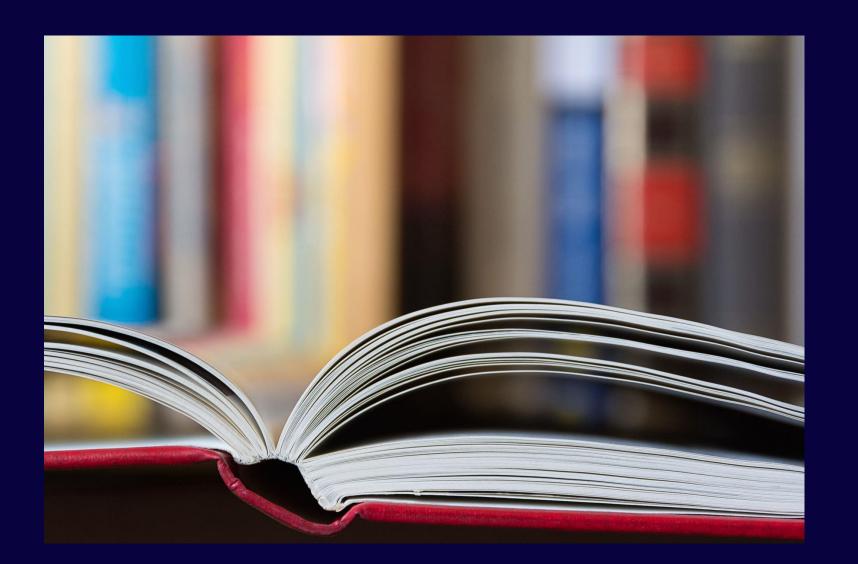
Problems that People With Disabilities can have





Literacy

Reading information
Understanding written text
Recognizing money
Math



Excecutive Functioning

Azure COMMUNITY CONFERENCE

Planning 'simple' tasks Making choices Concentration



Trust & Self-Trust

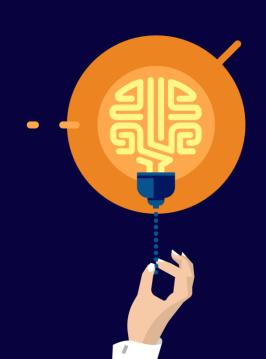


Self-trust can be hard Can I really do this? Will this really work?





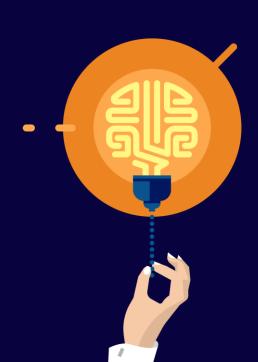
Demo's





DEMO: Creating a Cognitive Speech Service

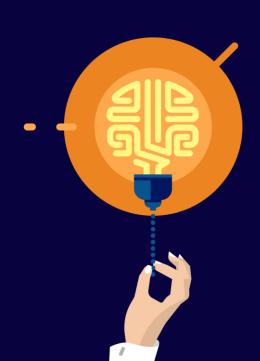
https://go.ddsoft.be/texthelp





DEMO: Speech Service in Action

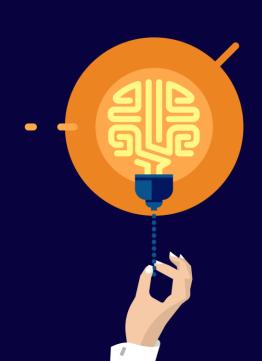
https://go.ddsoft.be/texthelp





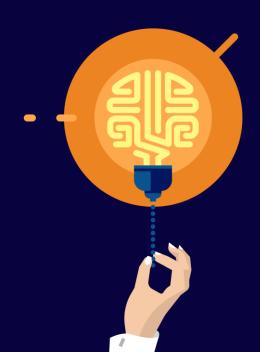
DEMO: Translate Service in Action

https://go.ddsoft.be/texthelp





DEMO: The Future of Web Accessibility



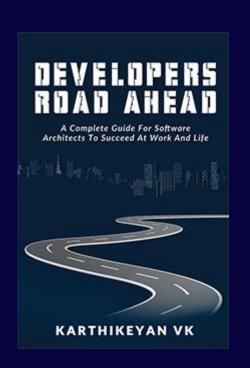
Our Partners



Packt (DEVPOST) RS/

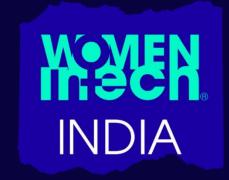






Communities

































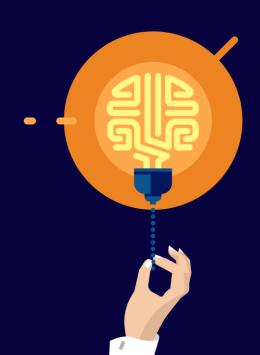


Q & A





Feedback







Dennie Declercq

@DennieDeclercq#DreamingIsBelieving

