

Microsoft tech·days

Kistamässan Stockholm
22-24 oktober 2019



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The Power of Inclusion

Dennie Declercq

Content


- Intro
- My story 'like good wine'
- The principles of inclusion
- Digital difficulties for people with disabilities
- Principles of accessible app design
- The real inclusion



Who am I?

- Dennie Declercq
- Volunteer developer!
- Autism
- Microsoft MVP
- DDSoft (nonprofit)
- #DreamingIsBelieving
- Positive thinker





#7ThYearMagic

Not your past?



- Bad decisions
- Learn from our past

People with disabilities in the past



- Had to change
- A shame for families
- A retard or a fool
- Specialized clinics & institutions



Why Inclusion?



- The Past is NOT ok
- Movement Early 2000
- Started for people with disabilities

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My story 'like good wine'

Thanks to inclusion!

As a child



- Being bullied a lot
- No friends
- Autism diagnose: 12yo
- A trauma
- No study choice
- People didn't believe me
- I didn't belong

As a volunteer



- ✓ Not happy in Fabric
- ✓ Bad thoughts
- ✓ Made the switch: 2012
- ✓ Happy volunteer!
- ✓ Help people!

In an inclusive living project



- ✓ Ithaka's inclusive project 'De Bezaan'
- ✓ Not supported living!
- ✓ One of the first inclusive projects in 2015
- ✓ Live QoL!

As an inspiration



- While living in 'De Bezaan'
- Spoke in Sydney
- Speak about:
 - Accessibility
 - Azure
 - Inclusion
 - Autism

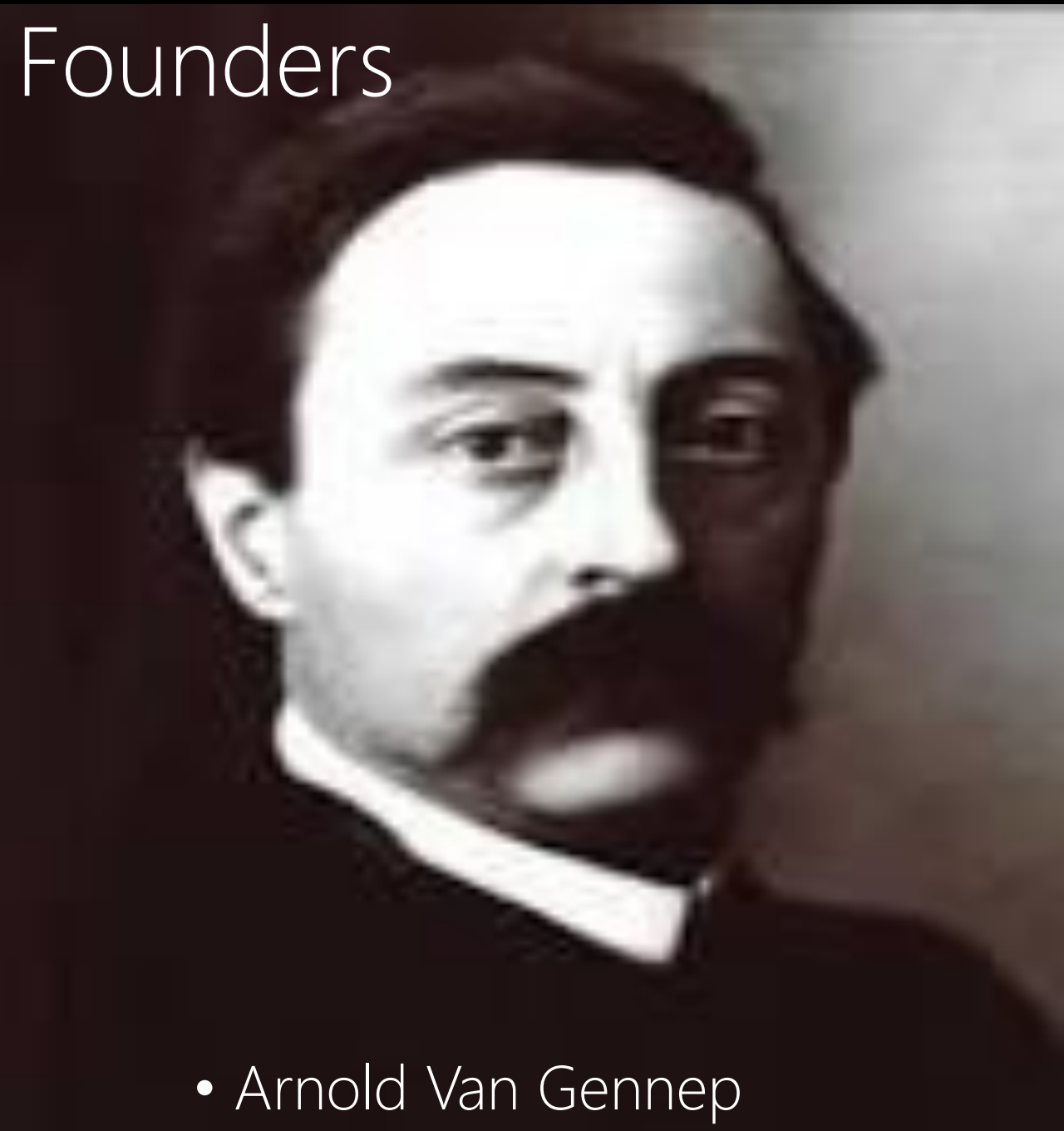
Till an MVP



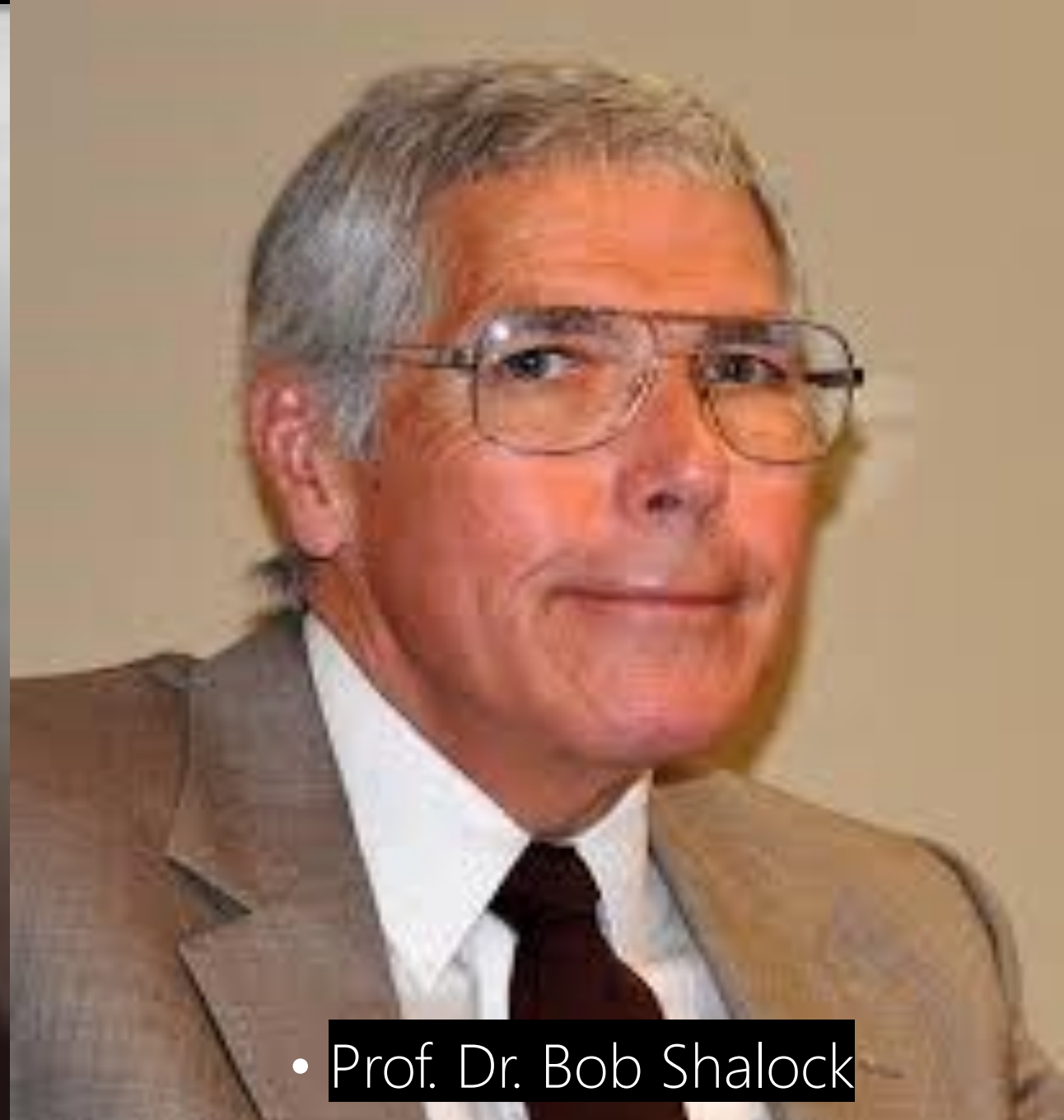
- August 2019
- So happy!
- BUT WHAT IF...?
- I didn't live in an inclusive project?

The principles of inclusion

Founders



- Arnold Van Gennep



- Prof. Dr. Bob Shalock

Van Gennep

**“As a person with a disability:
You can fill in your life yourself with your
own normal and special needs,
You can live, and do the same things as
Persons without a disability
And you are happy with the life you have”**

Schalock's domains of wellbeing

Emotional Well-Being	Material Well-Being	Physical Well-Being	Personal Development
<ul style="list-style-type: none">▪ Contentment▪ Self-Concept	<ul style="list-style-type: none">▪ Financial Status▪ Housing▪ Employment	<ul style="list-style-type: none">▪ Health▪ Activities of Daily Living▪ Leisure	<ul style="list-style-type: none">▪ Education▪ Personal Skill▪ Competence▪ Performance
Self-Determination	Interpersonal Relations	Social Inclusion	Rights
<ul style="list-style-type: none">▪ Autonomy & Personal Control▪ Goals & Personal Values▪ Choice	<ul style="list-style-type: none">▪ Interactions▪ Relationships▪ Supports	<ul style="list-style-type: none">▪ Community Integration & Participation▪ Community Roles▪ Social Supports	<ul style="list-style-type: none">▪ Human▪ Legal

Schalock, R.L. & Verdugo, M.A., 2002

What inclusion really means

Real inclusion

- People with disability doing the same activities as people without disability.
- People are living in the same district.
- People work together

Not so real inclusion

- A hostage for people with a disability.
- A school for kids with a disability.
- A working house specific for people with a disability.

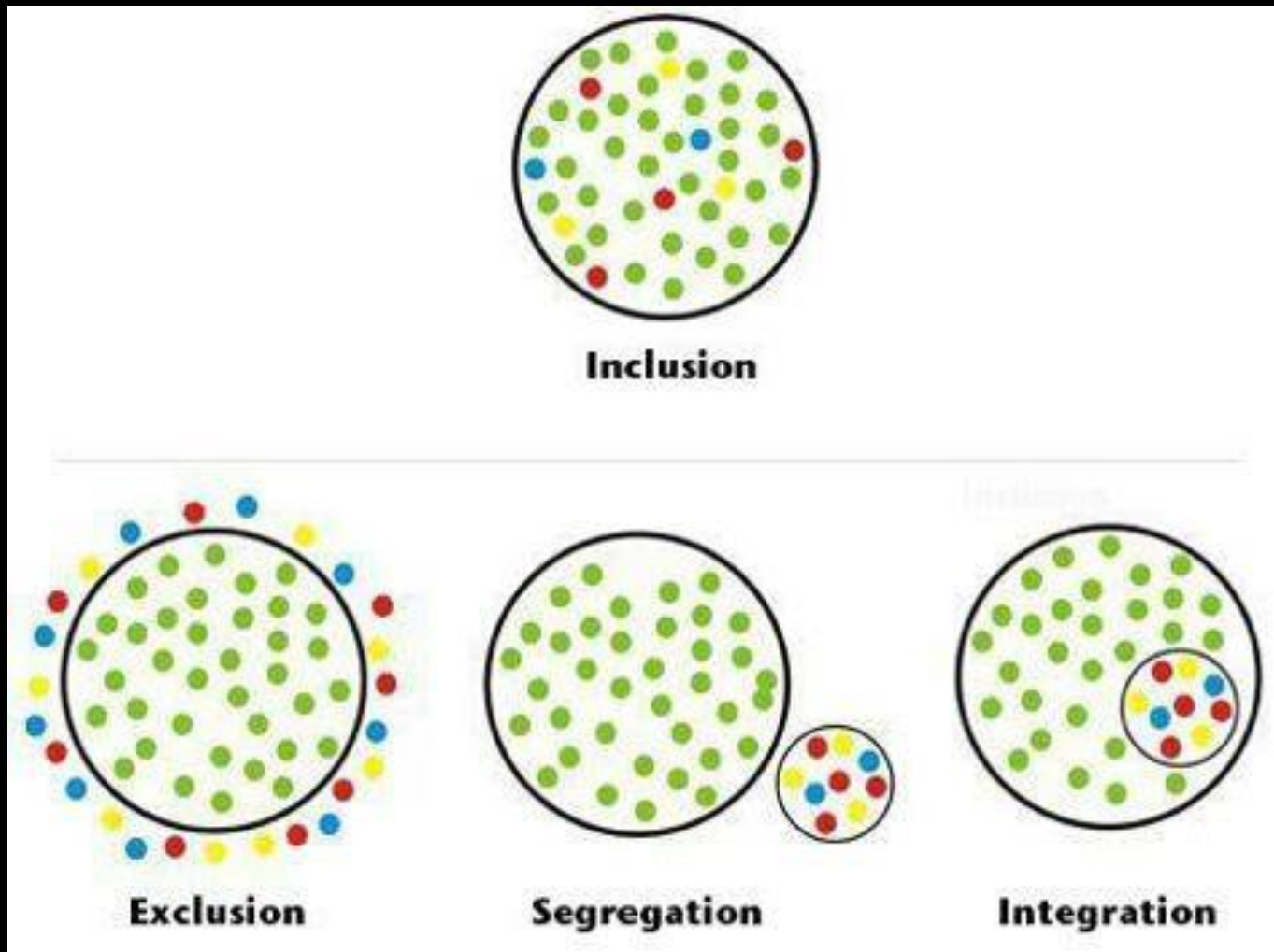
A way beyond diversity

Diversity is being
invited to the party.

Inclusion
is being asked to dance.

-Verna Myers

Not just integration



From Caring to Coaching

Caring

- Big institutions, clinics
- Professionals care people with disability
- Start point: "what is normal?"
- Many rules
- No in-between
- Big "you must take it all" packages
- Top (professional) – down(people with disability)

Coaching

- Small organizations
- Professional coaches the client
- Start point: "what want's the client?"
- Less rules
- A big "in between" zone
- Professional next to client

Inclusive neighborhoods



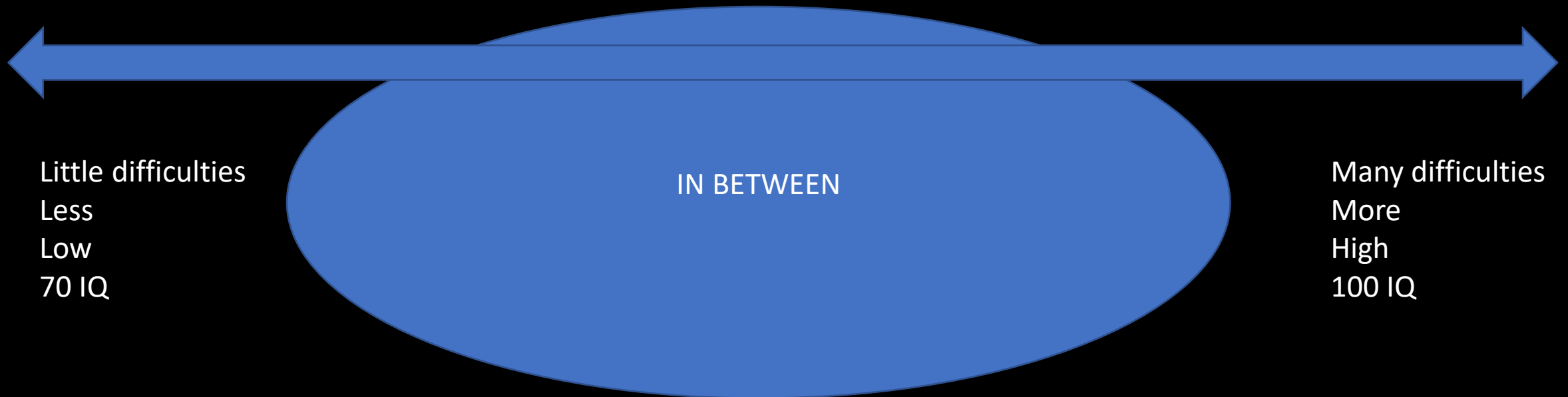
- People help each other
- Same public transport

People without disabilities asking also help from people with disabilities!

Digital difficulties for people with disabilities

Digital difficulties

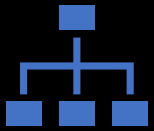
- A spectrum



Digital difficulties / Cognitive Disability

- Understand
 - What to do with application?
 - Which controls do I have to press?
 - How to navigate?
 - Math , counting
 - Structure
 - Screen
 - Whole app
 - Layout
 - Stack instead list

Digital difficulties / Autism



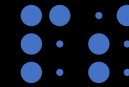
Structure



**Which buttons do I have
to press?**



Concentration

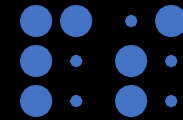


Also accessible for:

ADHD / ADD

Digital difficulties / Colorblind

- Troubles when
 - Non-matching color scheme
 - Most famous: Red-Green
- BUT
 - Colors == really helpful for:
 - Intellectual disability
 - Autism
 - Red-Green
 - Really clear for:
 - Learning disabilities / intellectual disability
 - Autism



Digital difficulties / Low vision



Seeing screen /
What's on the screen

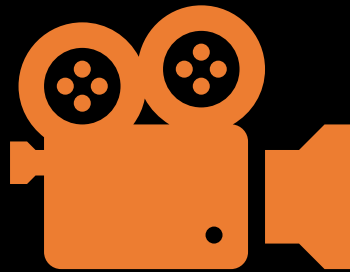


Use zooming tools

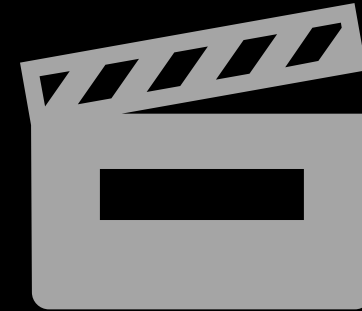


Use speech tools

Digital Difficulties / Hearing difficulties



Video's



Introduction

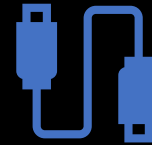
Digital Difficulties / Paralyzed



Hand control



Mouse



Device

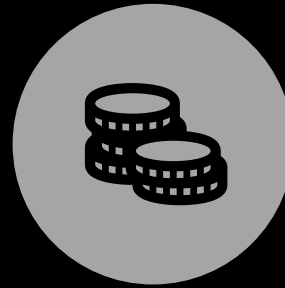


Multi-touch

Digital Difficulties / Financial consequences



From government



Limited budget

Principles of Accessible App Design

Layout

- Simplify the layout
- Bigger / Larger font
- Enough contrast
- Option to toggle dark background / bright background
- Color accents

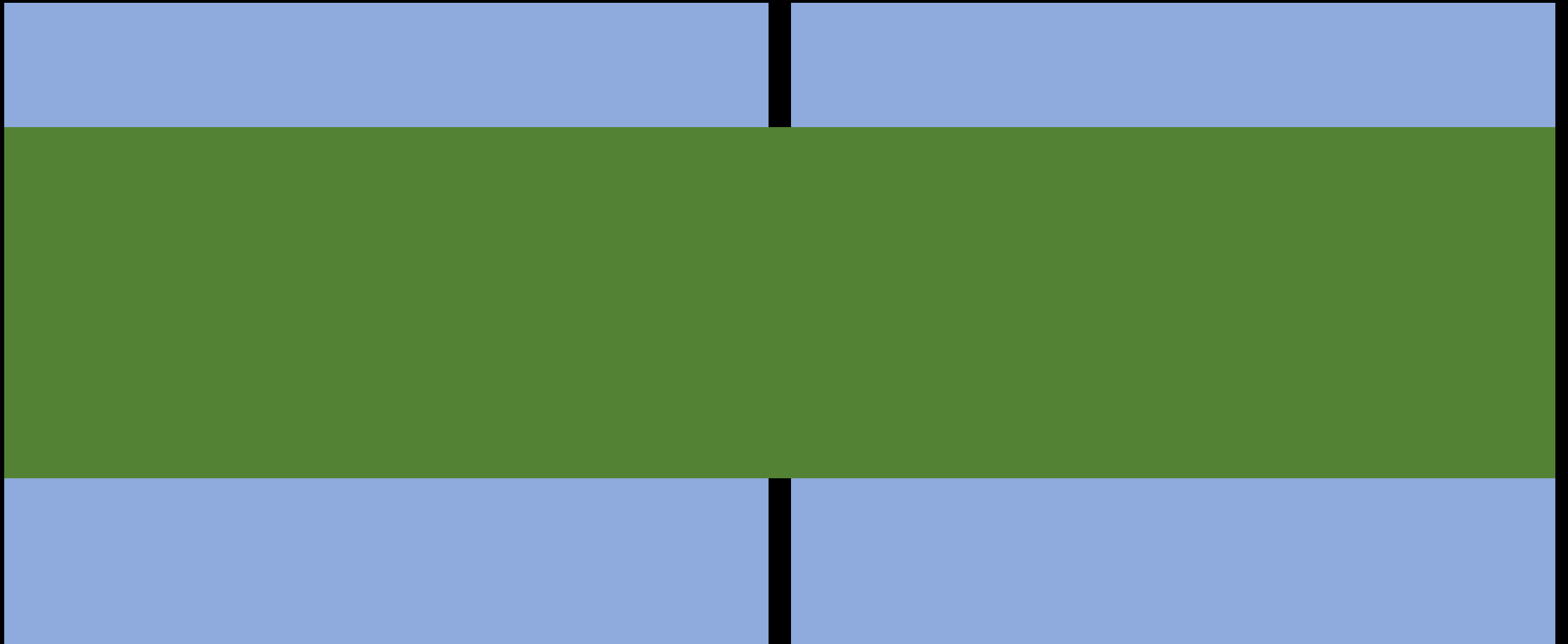
Layout - structure

- Limit content
- Limit options
- 1 topic par screen
- Which screens / controls in which order?

Layout - Direction

- Stack == easier than Grid

Layout - Colors



Color by function

A solid yellow rectangle.

I speak

A solid blue rectangle.

I open another page

A solid gray rectangle.

I navigate

Important basic colors



Yes



Confirm



No



Cancel

Colors for time indication



Today

Monday

Wednesday



Content - pictures

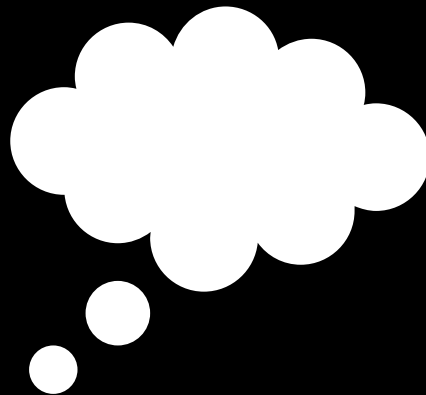
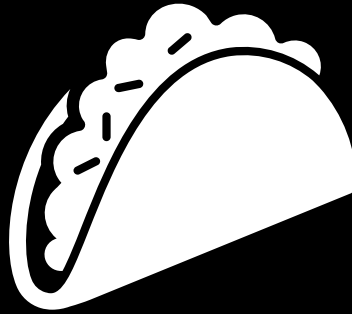
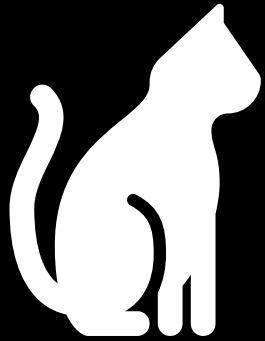
- What means the following?

- 酢飯

- The answer is:



Content - pictograms





Content – Use of language

APRIL 1914 - THE DASS FOREST COMPANY (BOISCHART & DE BONGHE)

Gentse feesten!



De 24^e Gentse Feesten
EEN ORGANISATIE VAN VEW

Own
language

Basic language

Basic

- Fish
- Happy
- Vegetables

Complex

- Salmon; Cod
- Enlightened
- Salad , Coles

Sign language



Partner ecosystem

Choose the best solution for each user!

Spotlight: Accessibility apps and extensions – Recently Added!

Visible text in movies

More deeply in the experiences and deliver new experiences. I'm happy to say that we have

Text to speech



Intellectual disabilities



Confirmation



On separate controls



Specific buttons

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The Real Inclusion

A co-worker with autism



Very strict



Specific focus



Sometimes a dreamer



Specific topics of interest

Nothing is such logical as autism

Developers logic

- A Boolean is true or false
- It's good to declare variables, what type it's expect
- If you program a loop, the exit scenario is mostly clear
- It's very structured

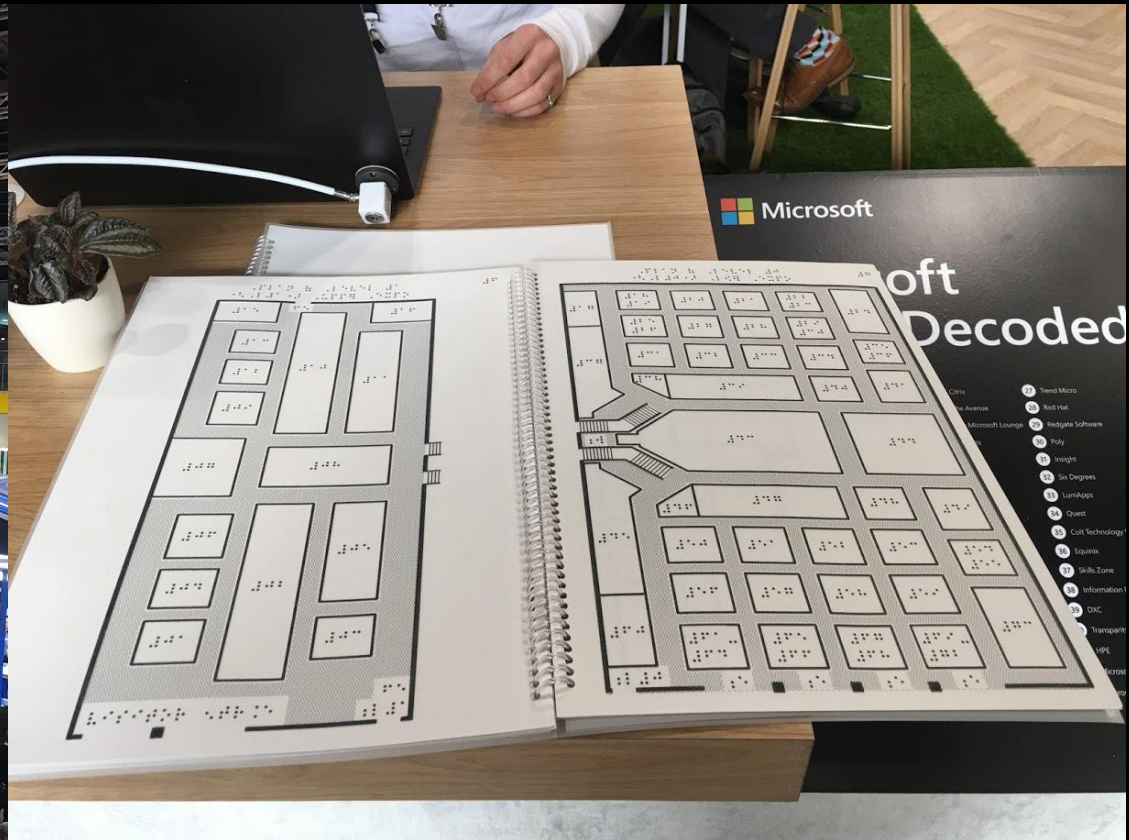
Autistic logic

- ✓ A fact is only true or false
- ✓ It's very nice that every circumstance is declared
- ✓ If there's a path to follow, auti's like it's clear and clean
- ✓ Most of them are very structured

Voices from bottom - up



Inclusive Events



Budgetary choices



Why do we need people with autism?



New insights



Many 'mental health' topics are coming from autism advices

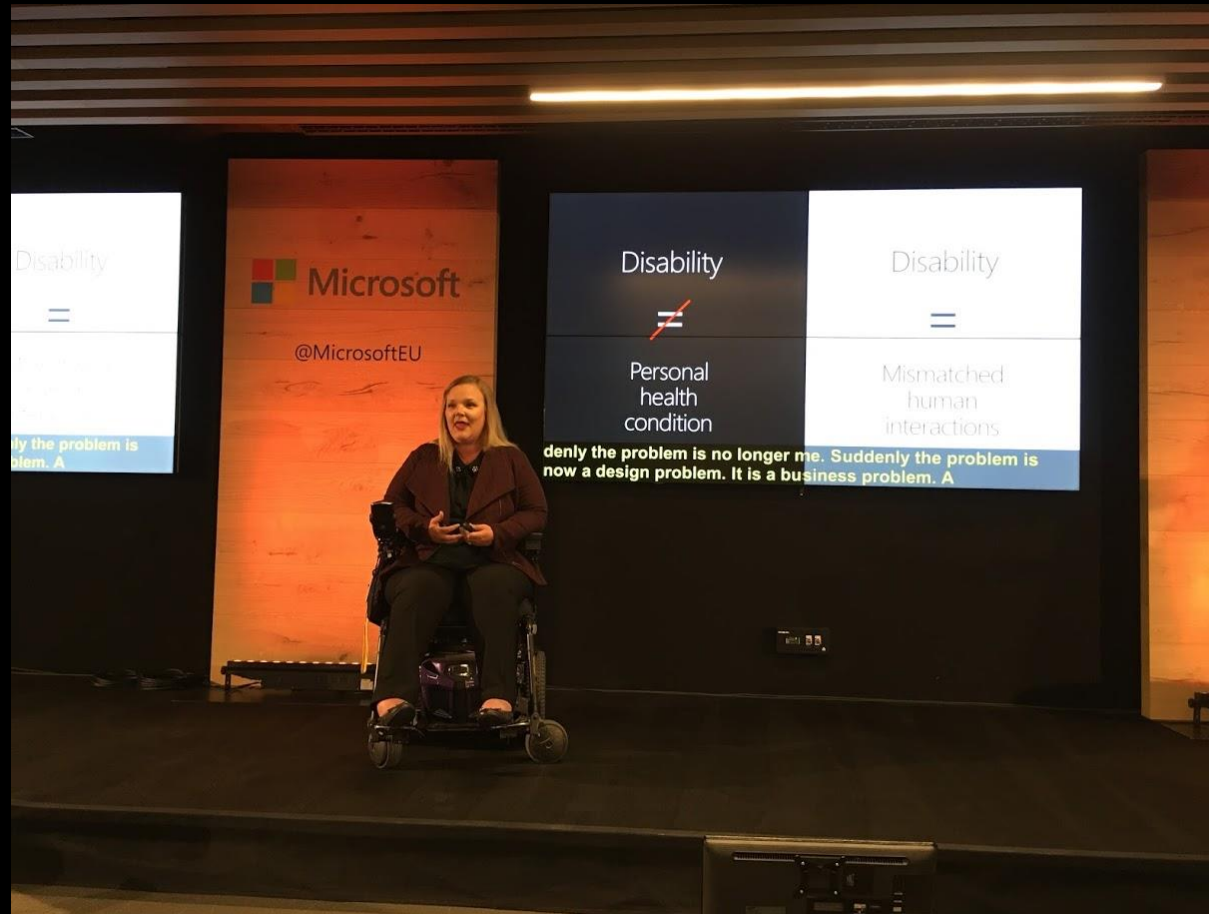
Why do we need this blind person?

**“Ever thought:
What if you are getting older?”**

Why I am happy that I live next to someone with learning disabilities



What everyone is learning from subtitles for the deaf



Wrap up

Thanks! || Q&A



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#DreamingIsBelieving
#7ThYearMagic
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Thank you!