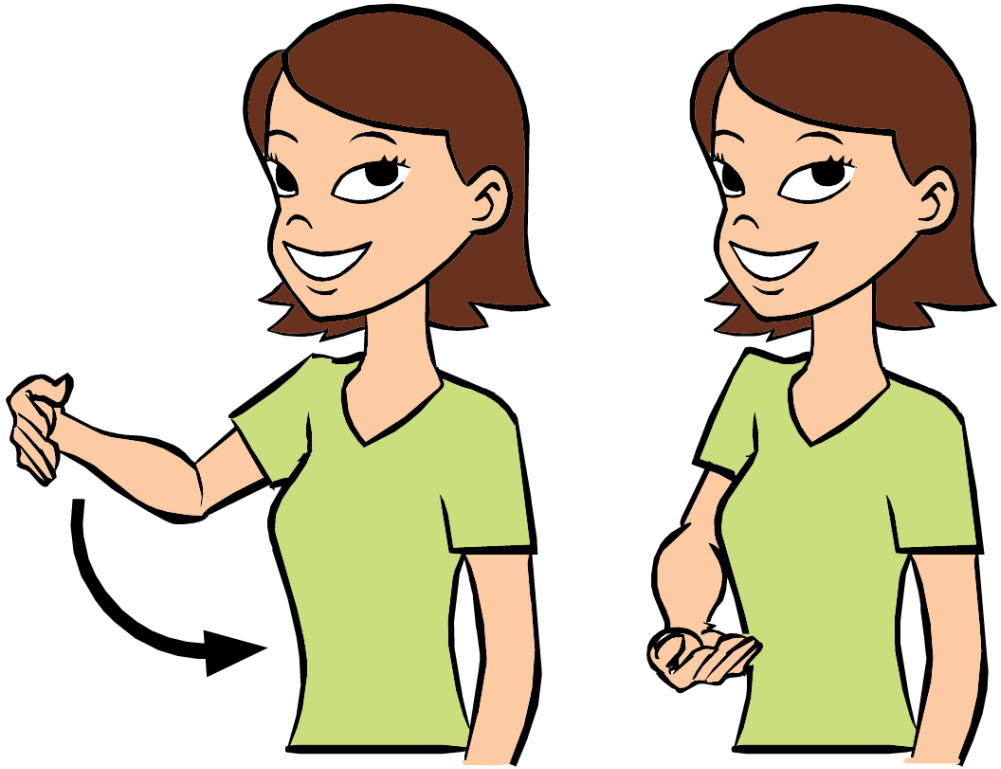




Session will start at 10:00 Cancún

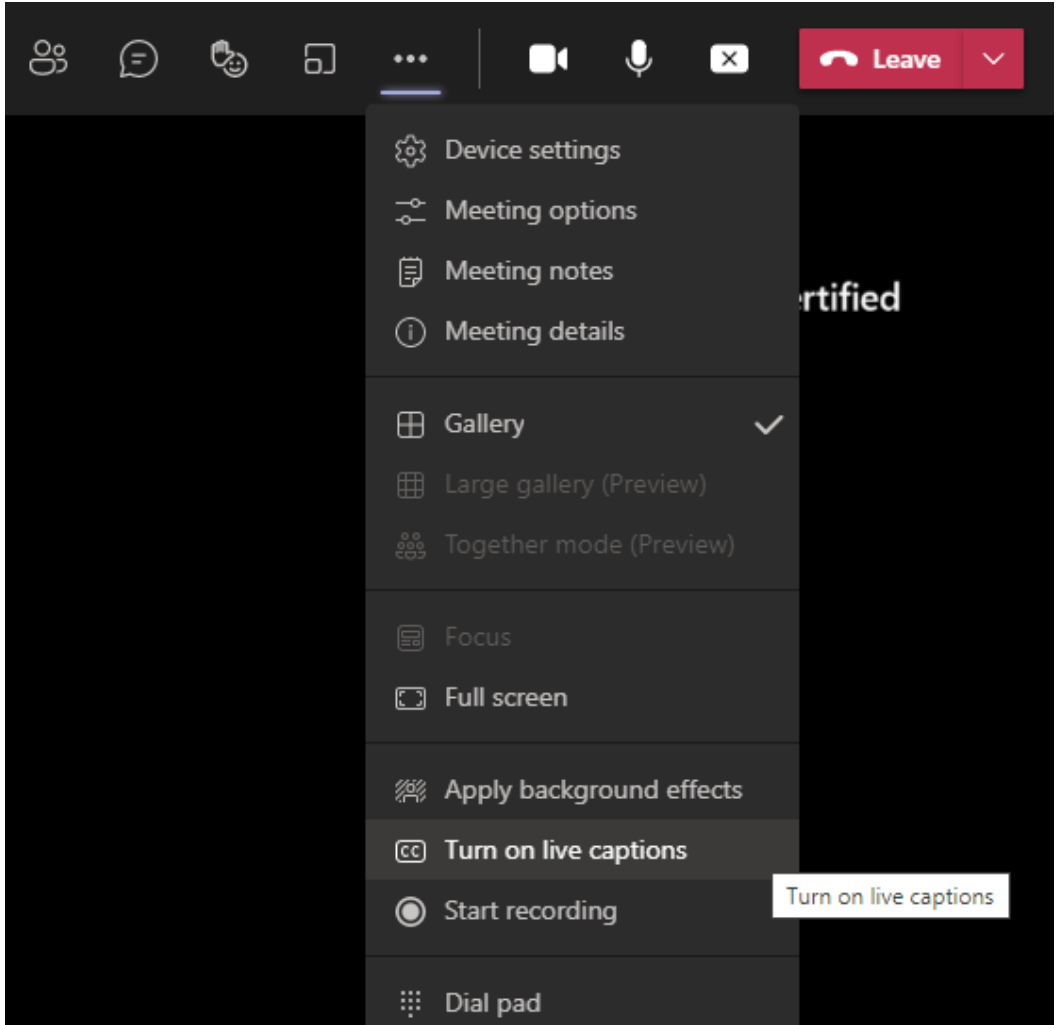
¡Bienvenidos!

Welcome!



Antes de que comencemos…

Before we start…



A Lunar Cat production...



From the producer of...























André Melancia
Andy.PT



Develop for Inclusion using Cognitive Services: An Azure Story

2022-06-03

#MSCLOUDCANCÚN2022

Really nice people that pay for the food!

¡Gente realmente agradable que paga por la comida!



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LET'S TALK:

Accessibility!

- Why are there issues?
- How can we fix them?
- How can AI and Cognitive Services help?

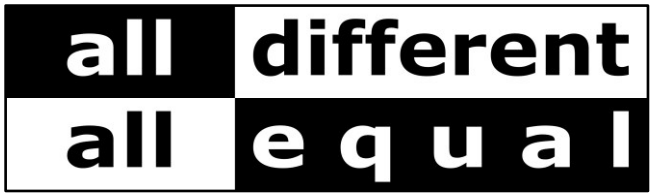
See a problem?
Let's fix it...



Microsoft Cloud Friday
CANCÚN
2022

Inclusion is built into democratic institutions

- European initiatives (1990s – ongoing):



- European Union:

« Treaty of Lisbon [2007]

Article 1a

The Union is founded on the values of respect for human dignity, freedom, democracy, equality, the rule of law and respect for human rights, including the rights of persons belonging to minorities. These values are common to the Member States in a society in which pluralism, non-discrimination, tolerance, justice, solidarity and equality between women and men prevail. »

Inclusion is built into democratic institutions (cont.)

- Universal Declaration of Human Rights:

  « Article 25

  Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care and necessary social services, and the right to security in the event of unemployment, sickness, disability, widowhood, old age or other lack of livelihood in circumstances beyond his control.»

Inclusion is built into democratic institutions (cont.)

Constitution of the Portuguese Republic (1976):

« Article 13 (Principle of equality)

1. All citizens possess the same social dignity and are equal before the law.

2. No one may be privileged, favoured, prejudiced, deprived of any right or exempted from any duty for reasons of ancestry, sex, race, language, territory of origin, religion, political or ideological beliefs, education, economic situation, social circumstances or sexual orientation. »

Federal Constitution of the Swiss Confederation (1999):

« Art. 7 Human dignity

Human dignity must be respected and protected.

Art. 8 Equality before the law

1 Every person is equal before the law.

2 No person may be discriminated against, in particular on grounds of origin, race, gender, age, language, social position, way of life, religious, ideological, or political convictions, or because of a physical, mental or psychological disability.

[…]

4 The law shall provide for the elimination of inequalities that affect persons with disabilities. »

Inclusion is built into democratic institutions (cont.)

Constitution of Mexico (…-2015):

« Article 1

[…] Any form of discrimination, based on ethnic or national origin, gender, age, disabilities, social status, medical conditions, religion, opinions, sexual orientation, marital status, or any other form, which violates the human dignity or seeks to annul or diminish the rights and freedoms of the people, is prohibited.

Article 3

[…] Contribute to a better human coexistence, in order to strengthen the appreciation and respect for cultural diversity, human dignity, the integrity of the family, the convictions over society's general interest, the fraternity and equality of rights ideals, avoiding privileges based on race, religion, group, sex or individual […]

Article 4

[…] Man and woman are equal under the law. The law shall protect the organization and development of the family.

[…] Every person has the right to health protection […]

[…] Any person has the right to a healthy environment for his/her own development and well-being […]

Article 123

[…] Social security shall cover work accidents, occupational diseases and other diseases, motherhood, retirement, disability, elderlies, and death.

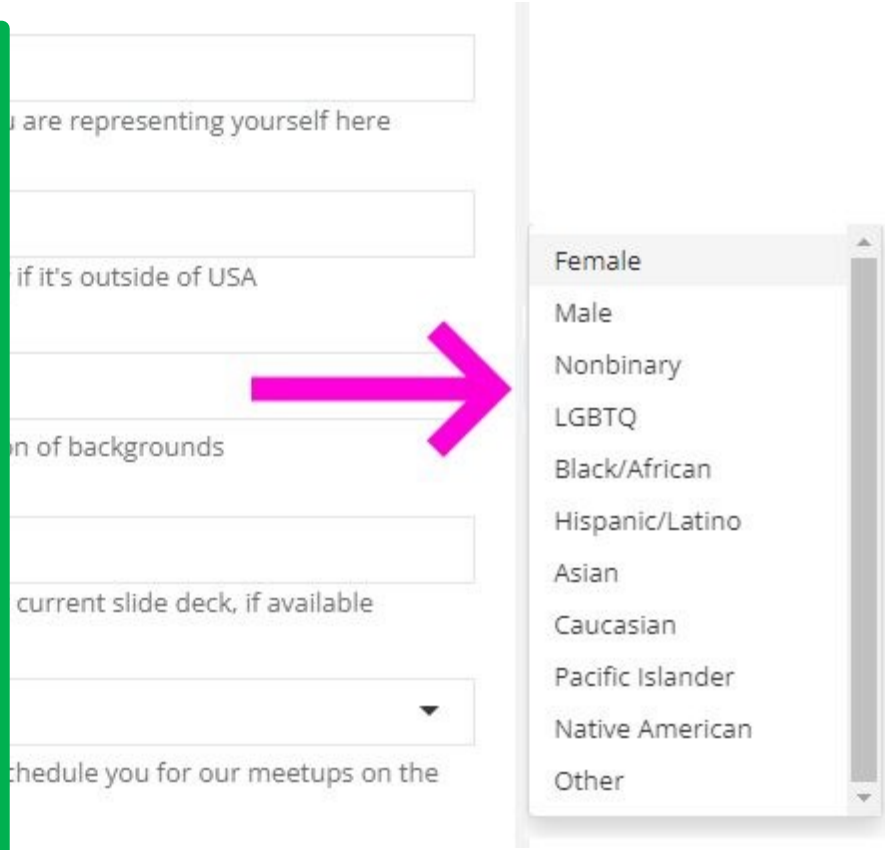
[…] In case of accident or illness, the right to work shall be retained for the time specified by law.

[…] During pregnancy, women shall not perform such work that requires excessive physical effort and could be dangerous regarding pregnancy. Women have the right to enjoy a disability leave due to childbirth […] »

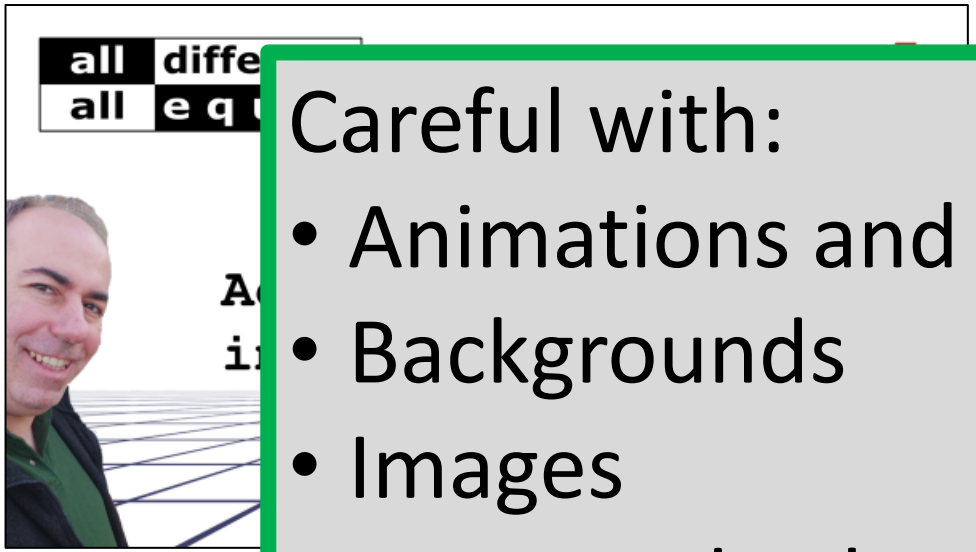
Diversity and Inclusion done WRONG…

Don't mix:

- Gender
- Sexual orientation
- Race
- Ethnicity
- Location of origin
- "Other"

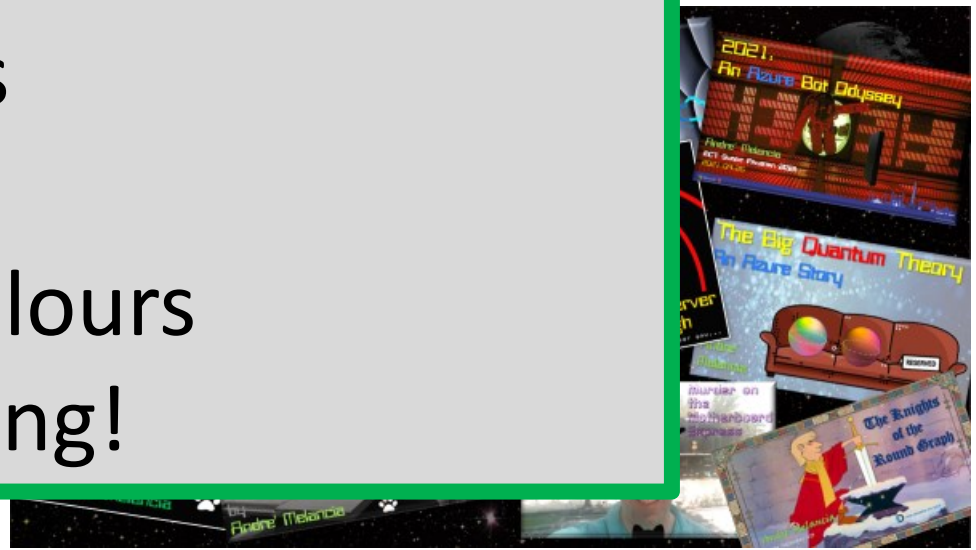


"See" a problem?



Careful with:

- Animations and transitions
- Backgrounds
- Images
- Fonts and colours
- Yes, everything!



Videos about Seeing AI…

See it online:

- https://www.youtube.com/watch?v=R2mC-NUAmMk
- https://www.youtube.com/watch?v=bqeQByqf_f8
- https://www.microsoft.com/ai/seeing-ai

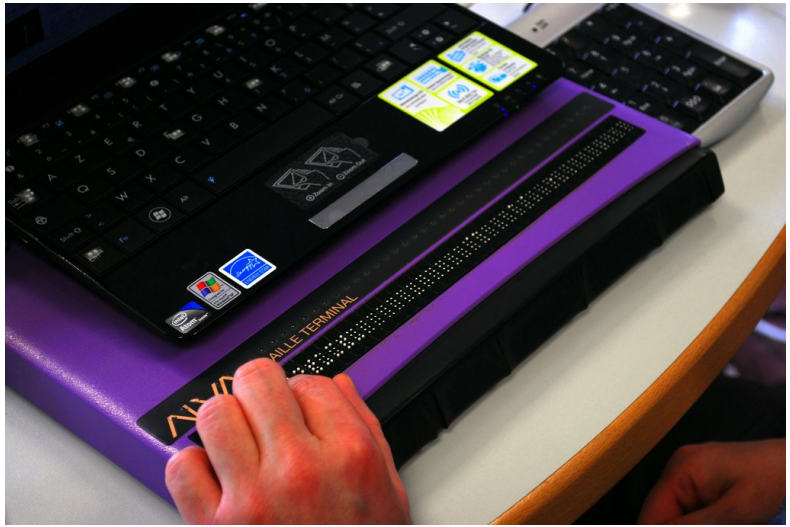
Accessibility addresses multiple problems

- Some have a technological solution
  - Mechanical, visual or audio aid, AI / Cognitive, etc.
- Others need a Human solution
  - Help, understanding ou simply patience!
  - Society, education, upbringing…

- Some situations are permanent
- Others are temporary

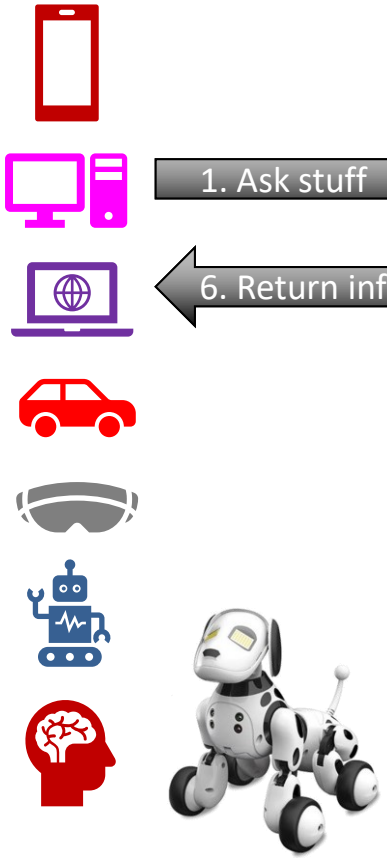
Inclusiveness for everyone, even when…

- Blind
- Visually impaired (low vision, partial sight)
- Colour blind
- Epilepsy
- Hearing (none or partial)
- No voice
- Mobility challenges
- Neurodiversity challenges
- Etc.



Try this yourself…
Walk in the same shoes.

Azure Cognitive Services



1. Ask stuff

2. Open WebService, send info

Azure

6. Return info

4. Return raw info

5. Process info

3. Magic happens

Questions?

Custións?



Standards Links:

EU accessibility

- EU Web Accessibility Directive

W3C accessibility

- w3.org/WAI/fundamentals/accessibility-principles
- WCAG 2.1

Microsoft accessibility

- microsoft.com/accessibility
- microsoft.com/ai/ai-for-accessibility
- microsoft.com/ai/seeing-ai
- Cognitive Services
  - Azure.com -> Products -> AI -> Cognitive Services
  - Docs.Microsoft.com/Azure/Cognitive-Services





André Melancia

Andy.PT

¡Muchas gracias!
Дуже дякую!
धन्यवाद
Vielen Danke!
Благодаря!
Thank you!
Obrigado, pá!
धन्यवाद्
Hvala vam!
ඔයාට ස්තූතියි
Ευχαριστώ!
Merci beaucoup!
Terima kasih!
Grazie mille!
Ďakujem!
Mulțumesc!
Labai ačiū!
Dziękuję Wam!

Mockrát děkuju!
Mange tak!
Kiitos!
Takk fyrir!
Dank u wel!
Takk!
Dank je!
Tack så mycket!
Köszönöm!
Go raibh maith agaibh!
Diolch!



THANK YOU

For Joining Us

#MSCLOUDCANCÚN2022

And in the end…

The love you take…

Is equal to the love you make!