

DIGITAL ACCESSIBILITY: essential for some, useful for all



October 13, 2022

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Publications Office of the European Union

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Services of the Publications Office

- Consultancy services.
- Tutorials and trainings.
- Accessibility site: <https://op.europa.eu/en/web/accessibility/accessibility>
 - E-learning.
 - Documents.
 - External links.
- Production of accessible digital publishing
 - Web PDF.
 - Interactive HTML.
 - Mobile apps.
 - Audio-visual.



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Digital accessibility



	<ul style="list-style-type: none"> Design and layout Fonts Specific writing: easy-to-read, child-friendly 	<ul style="list-style-type: none"> Dyslexia Learning disabilities Attention Deficit Hyperactivity Disorder
	<ul style="list-style-type: none"> Colours Alternative text 	<ul style="list-style-type: none"> Cognitive disorders Persons with other first language
	<ul style="list-style-type: none"> Captions Subtitles Transcripts 	<ul style="list-style-type: none"> [Children] Visual disabilities: blindness, colour-blindness, and low vision
		<ul style="list-style-type: none"> Auditory disabilities



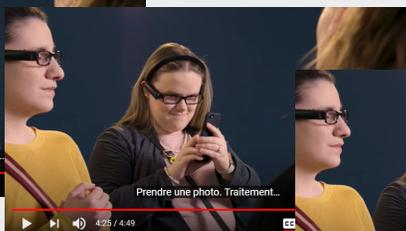
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Captions, subtitles and text transcripts

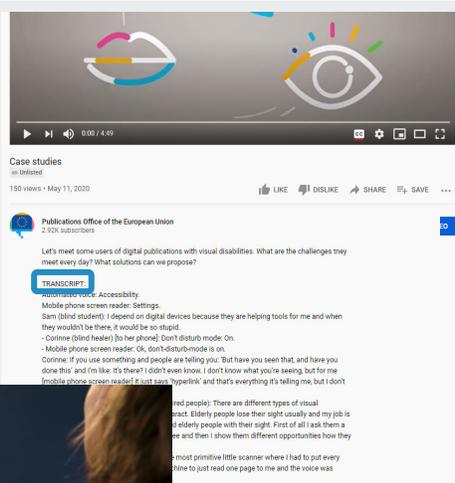












Case studies
Unlisted
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Publications Office of the European Union
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Let's meet some users of digital publications with visual disabilities. What are the challenges they meet every day? What solutions can we propose?

TRANSCRIPT

Accessibility:
 - Mobile phone screen reader: Settings.
 - Sam (blind student): I depend on digital devices because they are helping tools for me and when they wouldn't be there, it would be so tragic.
 - Corinne (blind header): To her phone, don't disturb mode: On.
 - Mobile phone screen reader: Ok, don't disturb-mode is on.
 - Corinne: If you use something and people are telling you, 'But have you seen that, and have you done this and it's like, it's there I didn't even know, I don't know what you're seeing, but for me [mobile phone screen reader] it just says 'hyperlink' and that's everything it's telling me, but I don't see anything' (blind people): There are different types of visual impairments. Elderly people lose their sight usually and my job is to help elderly people with their sight. First of all I ask them a question and then I show them different opportunities how they can use the device.
 - Sam: The most primitive little scanner where I had to put every page to just read one page to me and the voice was



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The screenshot shows the 'EU Pioneers' website interface. At the top left is the European Commission logo. The main heading is 'EU Pioneers' with the subtitle 'The trailblazers who helped build today's Europe'. Below this, it states 'AUDIOBOOKS AVAILABLE TO LISTEN AND DOWNLOAD IN ALL 24 EU LANGUAGES.' A list of languages is provided, including Bulgarian, Spanish, Czech, Danish, German, Estonian, Greek, English, French, Gaelic, Croatian, Italian, Latvian, Lithuanian, Hungarian, Maltese, Dutch, Polish, Portuguese, Romanian, Slovenian, Slovak, Finnish, and Swedish. On the right, there is a graphic with portraits of historical figures and the text 'EU PIONEERS'. Below the main text, there are three sections for audio players: Bulgarian, Spanish, and Czech. Each section includes a progress bar, a play button, and download/transcription links. A small European Union flag icon is visible in the bottom right corner of the page.

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The slide is titled 'Fonts' and features a decorative header with a stick figure icon. It compares serif and sans-serif fonts. Under 'Serif', the letters 'F', 'L', and 'i' are shown with decorative flourishes. Under 'Sans-serif', the letters 'F', 'L', and 'i' are shown in a clean, modern font. A bullet point states: '• Sans-serif fonts recommended for digital publications.' Below this, two examples are given: 'Gill Sans' with three vertical bars and 'Verdana' with a bolded '1' followed by three vertical bars. On the right side of the slide, there is a photograph of a large pile of wooden letter blocks.

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Easy-to-read text




- Many texts are very complex for some target groups.
- Some characteristics:
 - Simple and linear layout.
 - Short sentences.
 - With images to improve the understanding of the text.
 - Without abbreviations, technical terms and synonyms.

<https://www.inclusion-europe.eu/category/etr/>

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Union of Equality Strategy for the Rights of Persons with Disabilities 2021-2030



Other funds can play a role in achieving the objectives of this Strategy:

The Erasmus programme will foster financial support and other inclusive measures for persons with disabilities. The Citizenship, Equality, Rights and Values Programme (CERV) will support the implementation and governance of this Strategy. The Commission will focus a disability-inclusive implementation of other financial instruments and programmes such as InvestEU, Horizon Europe¹⁰.

To align the management of the relevant funds under the Multi-annual financial framework for 2021-2027¹¹ with regard to the rights of persons with disabilities, the Commission will support Member States through stronger cooperation, awareness raising activities, and targeted guidance.

The Neighbourhood, Development and International Cooperation Instrument 2021-2027 will contribute to the implementation of the external objectives of the strategy. Funds such as SOCRUD¹², the technical cooperation programme focusing on short-term missions, the Technical Assistance and Information Exchange agreement (TAIEI)¹³ and TWINNING programmes will help to implement EU disability policies worldwide.

The Commission will also:

- explore funding opportunities through the new Citizenship, Rights, Equality and Values Programme (CERV) to foster engagement of citizens with disabilities on equal basis with others;
- support Member States to use EU Funds in compliance with the UNCRPD and ensuring accountability ensuring that EU funds do not support actions that contribute to segregation or exclusion.

The Commission calls on the Member States to:

- ensure partnership with regional, local authorities, representative organisations of persons with disabilities, civil society, fundamental rights bodies and other stakeholders in the design and implementation of EU funds;
- encourage the UNCRPD focal points to support the fulfilment of the relevant enabling conditions throughout the programming period.

8. Leading by example

The Commission aims to lead by example and calls on other EU institutions, bodies and agencies to do likewise.

8.1. Making selection, recruitment, employment and retention processes disability-inclusive

Diversity and inclusion search and strengthen organisations. In this spirit, the Commission will include in its research Horizon Europe (HE) a strategy action to boost the recruitment, effective employment and career perspectives of staff with disabilities and to create inclusive work environments, manifesting its commitment as an employer to foster diversity and equality while also ensuring that accessibility and reasonable accommodations are provided for. The recently created 'Diversity and Inclusion Office'¹⁴

10. https://ec.europa.eu/erasmus-plus/en
11. https://ec.europa.eu/eafsd/en
12. https://ec.europa.eu/europeaid/en
13. https://ec.europa.eu/europeaid/en
14. https://ec.europa.eu/europeaid/en



UNION OF EQUALITY: STRATEGY FOR THE RIGHTS OF PERSONS WITH DISABILITIES 2021-2030

Building a Union without barriers

3 March 2021
#EUdisabilityrights

"Everyone has a right to a life without barriers. And it is our obligation, as a community, to ensure persons with disabilities can fully participate in society, on an equal basis with others."

Commission President Ursula von der Leyen



59.8% of persons with disabilities are in employment compared to 75% without disabilities.



28.4% of persons with disabilities are at risk of poverty or social exclusion compared to 17.8% of persons without disabilities.



Only 29.4% of persons with disabilities attain a tertiary degree compared to 48.8% of those without disabilities.



52% of persons with disabilities feel discriminated against.

Full participation of people with disabilities: rights, autonomy and equality

87 million persons in the EU have some form of disability. They all have the following rights:



Enjoy EU rights

- Be able to move to another EU country.
- Participate in political elections.



Live independently and autonomously

- Participate in the labour market.
- Learn new skills for new jobs.



Participate and be protected from discrimination

- Receive an education.
- Access justice and legal protection.



The European Union's Plan for Children's Rights

This leaflet talks about a new plan for children's rights.

The plan has been written by the **European Union**.

The European Union is 27 countries that work together.

The European Union is also known as the EU.

Children's rights are promises that adults have made so children can have a good life.

Did you know?

The biggest set of children's rights promises is called the United Nations Convention on the Rights of The Child.

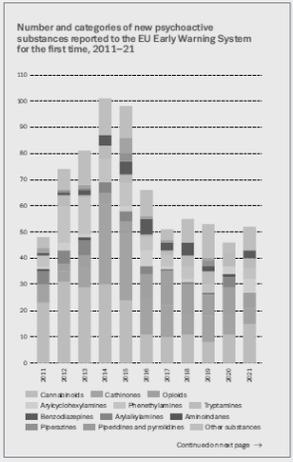
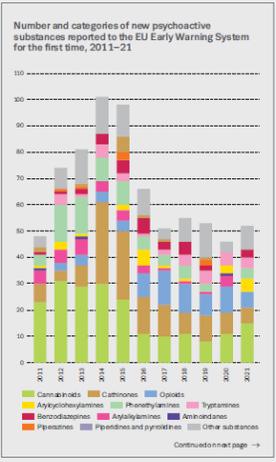
Here are some examples of children's rights

- To be safe.
- To play.
- To learn.

Information conveyed by colour

• To convey information do not use only colour:

- Instead of ● ●
- Use ✗ ✓

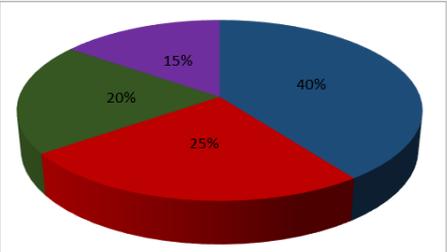


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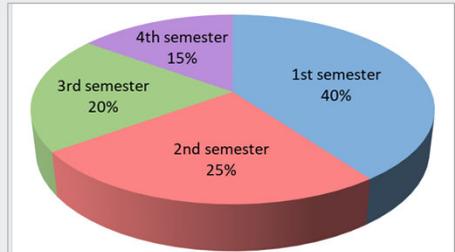
Colour contrast

There has to be enough contrast between the background and the text both in the whole document and in the images.

Good contrast	Good contrast	Good contrast
Bad contrast	Bad contrast	Bad contrast



✗ NOT OK



✓ OK

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Colour-blindness

The diagram illustrates four types of color vision: tritanomal, dueteronope, protanope, and tritanerope. It also shows a 5x5 grid of color blindness tests, each containing a number (12, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15) formed by colored dots.

Type	Color Vision	Icon
tritanomal	Normal dichromat	Normal eye icon
dueteronope	Dichromats	Eye icon with red slash
protanope	Dichromats	Eye icon with red slash
tritanerope	Dichromats	Eye icon with blue slash

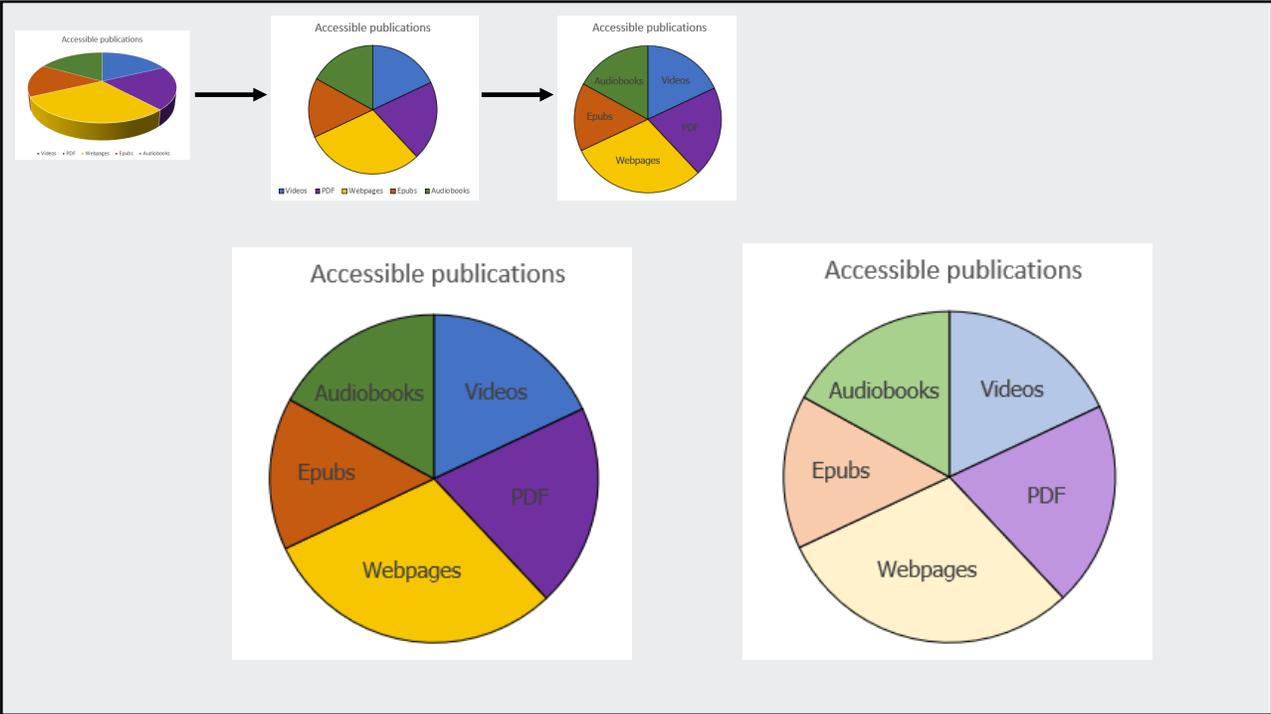
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Accessible publications

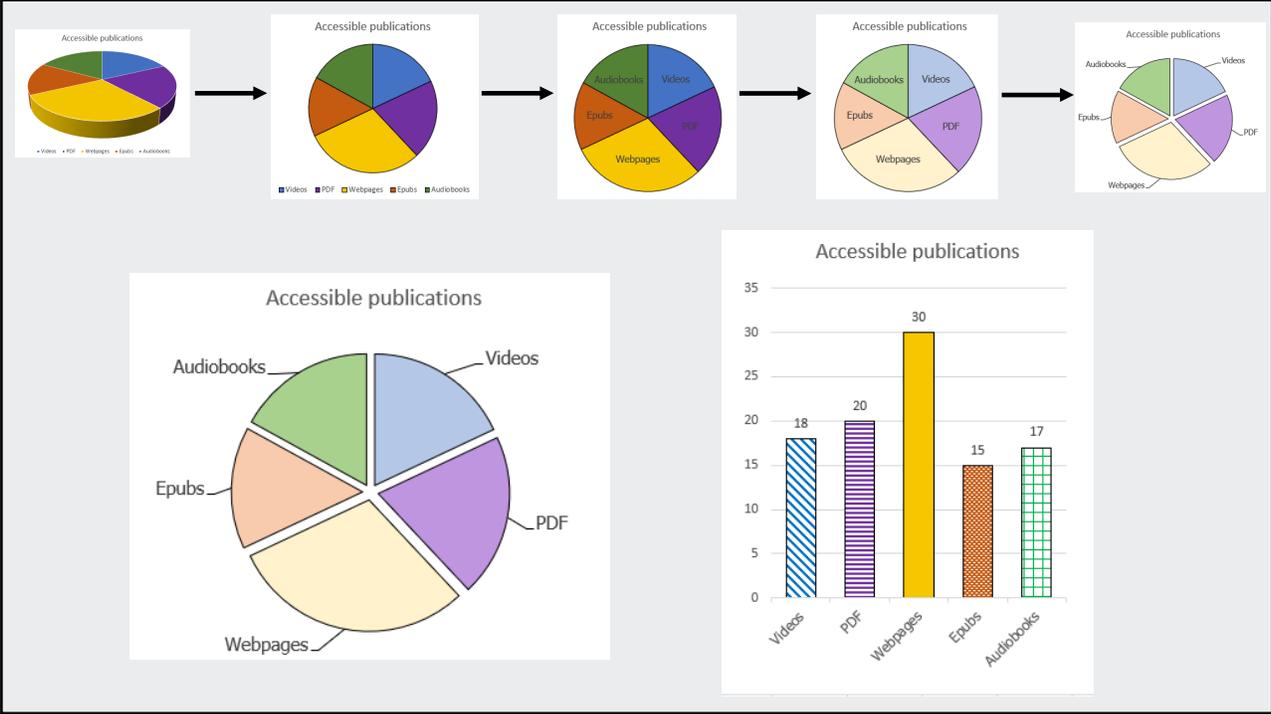
The three pie charts show the distribution of accessible publications for different groups. The first chart shows the distribution for normal vision, the second for Red-Blind / Protanopia, and the third for Monochromacy / Achromatopsia.

Group	Videos	PDF	Webpages	Epubs	Audiobooks
Normal Vision	~15%	~15%	~35%	~20%	~15%
Red-Blind / Protanopia	~15%	~15%	~35%	~20%	~15%
Monochromacy / Achromatopsia	~15%	~15%	~35%	~20%	~15%

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Images and charts

Alternative text

- Provide alternative text to describe meaningful images and charts.
- Do not duplicate the text in the caption.

Artifacts

- Indicate which images are decorative and must be excluded from the reading order.

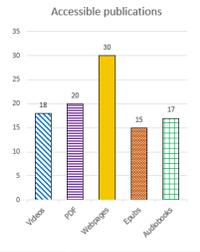


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Alternative texts

- Meaningful images contain a caption for the people who can see. Therefore, the alt text have to include other type of complementary information depending on the context.
 - For simple images, describe the image, focusing on what is important in the current context.
 - For complex images, such as graphs, maps or math formulas, a more extensive description is needed.





Category	Count
Videos	18
PDF	20
Webpages	30
E-books	15
Audiobooks	17

$$\Delta \ln MFR_t \equiv \Delta \ln V_t - \bar{v}_{K,t} \Delta \ln K_t - \bar{v}_{L,t} \Delta \ln H_t$$

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Questions?

OP-ACCESSIBLE-PUBLICATIONS@publications.europa.eu