

Lehrentwicklung und -technologie LET, ETHZ



Accessible PPT-Documents

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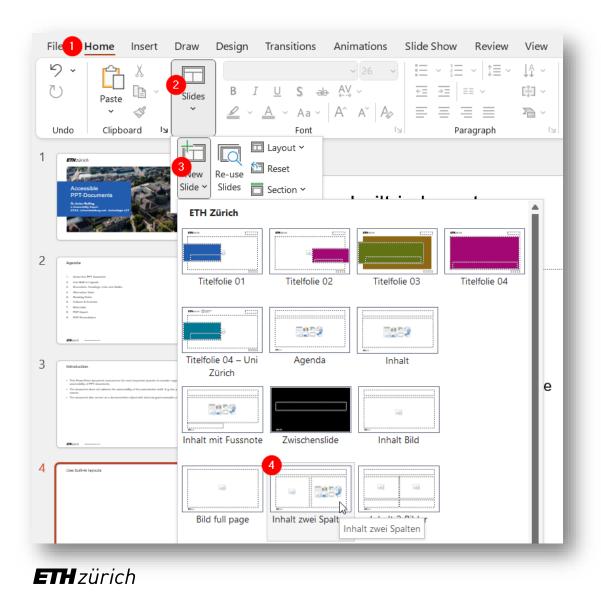
Agenda

- 1. About this PPT document
- 2. Use Built-in Layouts
- 3. Semantics: Headings, Lists and Tables
- 4. Alternative Texts
- 5. Reading Order
- 6. Colours & Contrast
- 7. Meta data
- 8. General MS Office Aspects
- 9. PDF Export
- 10. PDF Remediation
- 11. Alternative presentation formats

Introduction

- This PowerPoint document summarizes the most important aspects to consider regarding the accessibility of PPT documents.
- The document does not address the accessibility of the presentation itself. E.g. live presentation in a course.
- The document also serves as a demonstration object with bad and good examples of accessibility.
- In order to benefit optimally from this document, the <u>e-Accessibility Basics on the ETHZ Info Platform</u> are required.
- Disclaimer:
 - Unfortunately, PowerPoint as a format is fundamentally ill-suited for digital accessibility. Neither rich semantics nor possibilities for flexible output are provided.
 - This document shows ways to avoid the worst in-accessibilities.
 - The last sections show how PDFs from PPT can be prepared accessibly afterwards.

Use built-in layouts



In MS Office, use built-in resources whenever possible. This will increase the chance that your content will find its way into a PDF handout. Z.B.

- Choose built-in slide layouts:
- Home > Slides > View Slide > choose

Especially avoid working with Text Boxes, SmartArt, WordArt and other «Floating Objects»

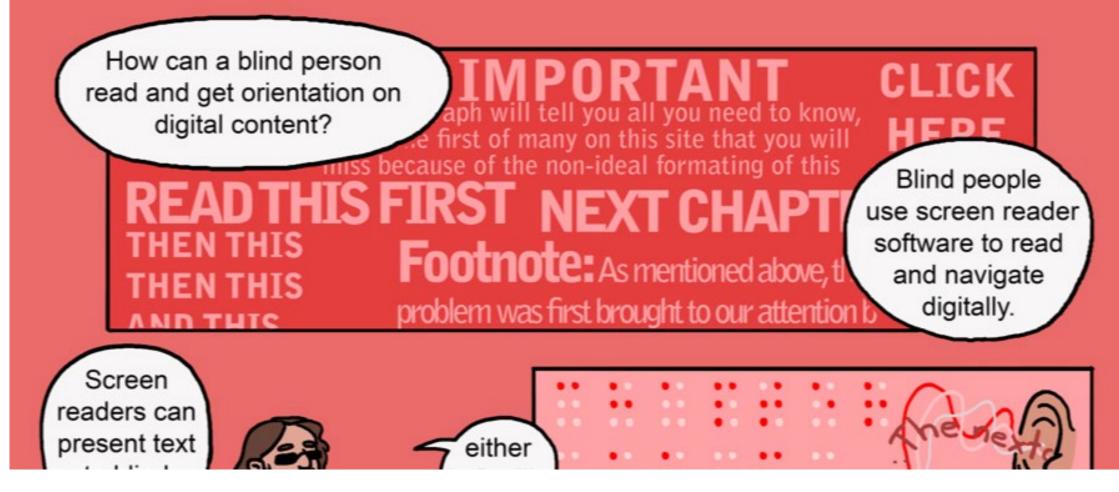
Semantics - Headings

Theme Fonts Arial (Headings) Arial Arial (Headings) (Body) All Fonts Abadi Abadi Extra Light	
	Arial Arial (Headings) (Body) All Fonts Abadi

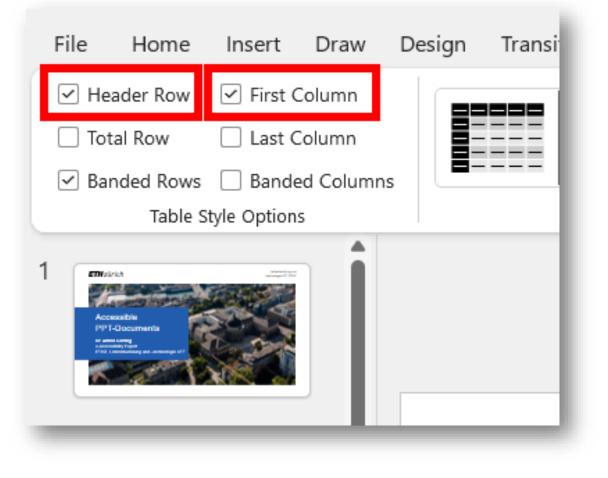
- By default Powerpoint comes with no headings.
- Instead, the slides can be given titles.
- Make sure that each slide has a meaningful title that briefly and accurately describes the content that follows.
- Towards the end of this document you will hear about refining the heading structure of the document in the export PDF.

Headings structure

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Semantics – Tables

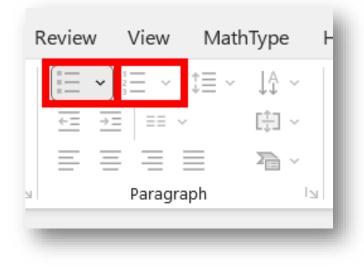


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Nostrud exercitation	365	425	506	559
Consectetur adipiscing elit	318	349	355	359
Nim ad minim veniam	13	16	97	82

Make sure all data tables come with table headers. In most cases this means that the table has both column and row headers.

Mark table > Table Design (tab) > check
 "Header Row" and "First Columns" checkboxes

Semantics - Lists



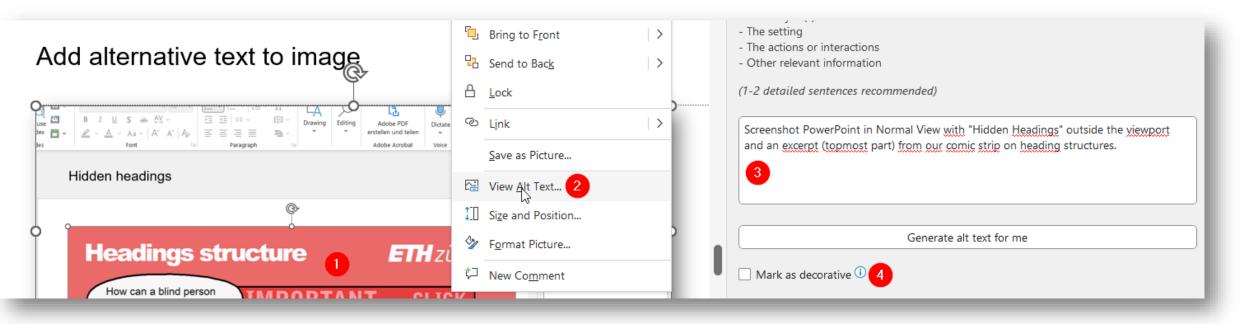
- Make sure all lists are marked as lists
 - Numbered or unnumbered
- Home (tab) > Paragraph

In PowerPoint it is almost more difficult to work without lists than with. This point should not really be a challenge.

Alternative Texts

- Alternative texts are primarily designed for illustrations of all kinds. For images, graphics, charts, icons and symbols.
- In PowerPoint it often makes sense to assign alternative texts for other contents and groupings of contents.
- For example, for complex diagrams, which consist of several objects.
- The basic requirements for handling images are not discussed here. Refer to <u>Alternative texts and text</u> <u>alternatives article</u> in the FAQs & Quick Wins section on the ETHZ info platform.

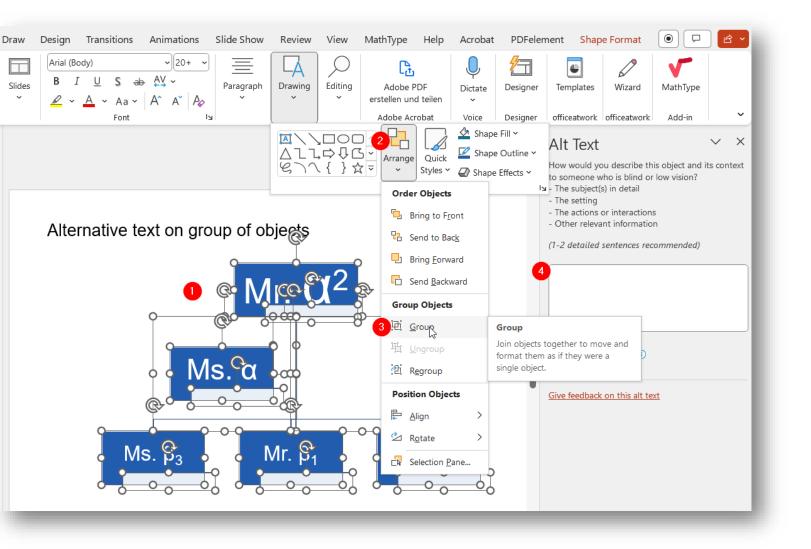
Add alternative text to image



Provide the images in your PPT documents with alternative texts, as follows:

- 1. Right mouse click on the image
- 2. Select "View Alt Text..." from overlay menu > side pane "Alt Text" appears (right)
- 3. Enter alternative text in text field or
- 4. Check "Mark as decorative" for purely decorative images

Alternative text on group of objects

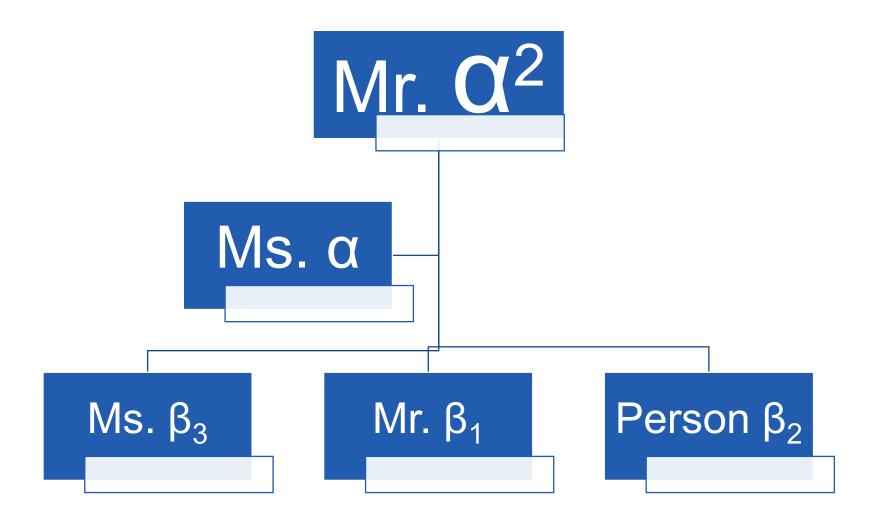


In a representation such as an organization chart, which consists of many individual components, an alternative text is usually sufficient for the overall picture:

For this purpose

- 1. All objects are selected
- Open an overlay menu via Home (tab) > Drawing > Arrange
- 3. The elements are grouped to one object with "Group"
- 4. This resulting object is then assigned a meaningful alternative text...

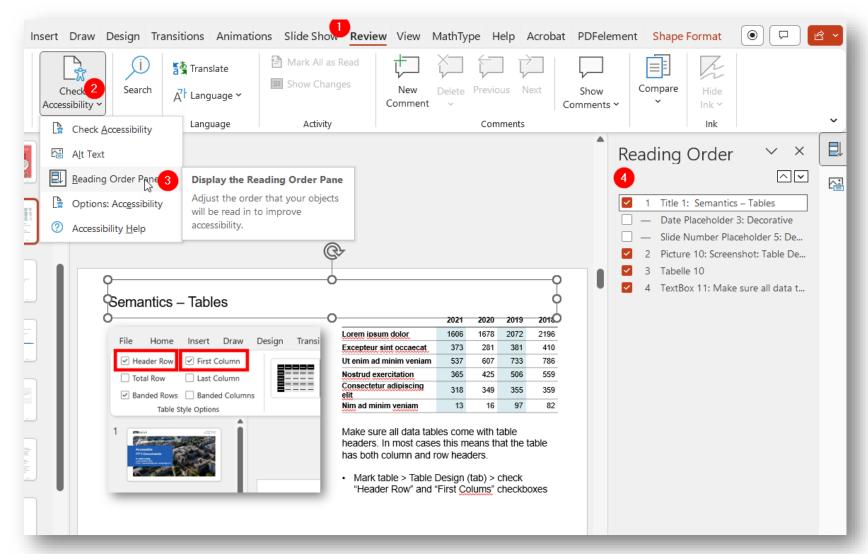
Alternative text on group of objects - Exercise



Reading Order - Importantissimo

- For screen reader users, there is no "meaningful reading order" of the different elements and objects on a slide.
- There is only a more or less sensible sequential order (from the beginning to the end of the slide).
- This reading order must be consciously and actively defined. Powerpoint has no idea of a "sensible" reading order.
- Often a mixture of the layout and the order in which objects are added to the slide defines the resulting reading order.
- Actively define Reading Order using 1. the Reading Order Pane or 2. Selection Pane
- Both tools for defining the reading order are closely linked to the order of overlaying floating layers.
 Dealing with floating objects is therefore very delicate.

Reading Order - Tool 1: Reading Order Pane



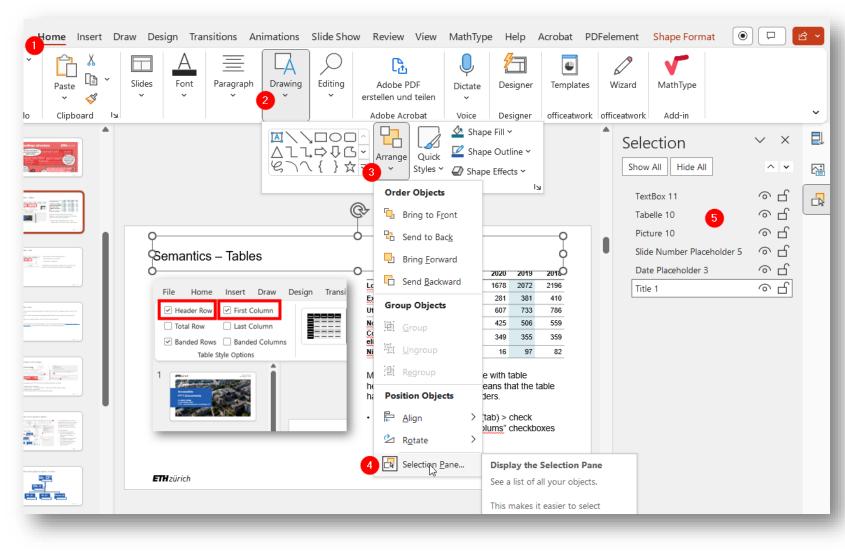
The Reading Order Pane tool

- 1. > Review (tab)
- 2. > Check Accessibility
- 3. > Reading Order Pane

allows you to actively define the reading order of all elements on a slide by drag n drop (4.) as well as to mark them as "decorative".

(first read element is top on list)

Reading Order – Tool 2: Selection Pane



The Selection Pane tool

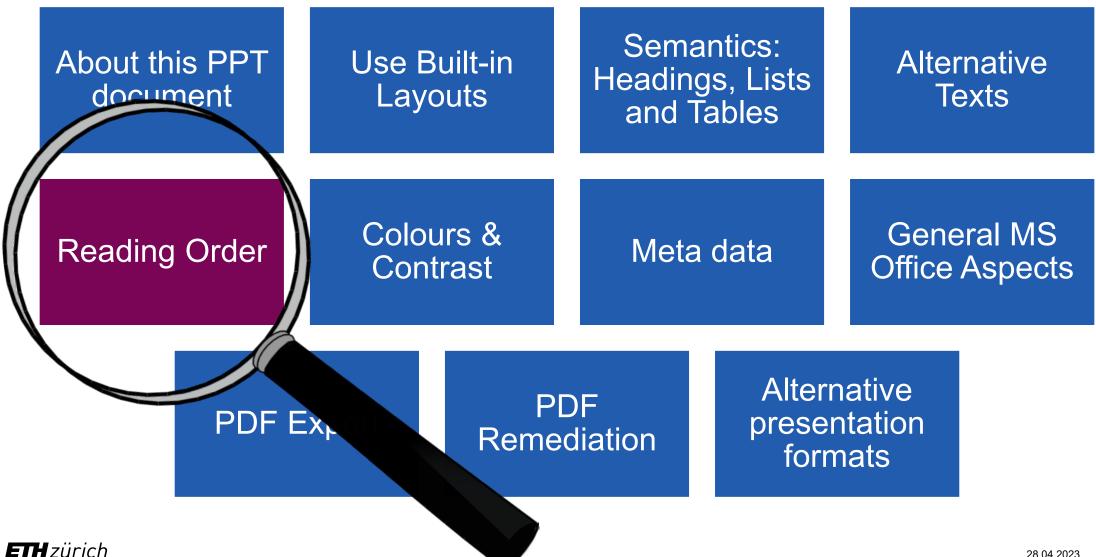
1. > Home (tab)

- 2. > Drawing
- 3. > Arrange
- 4. > Selection Pane...

allows you to actively define the reading order of all elements on a slide by drag n drop (5.).

(Warning: first read element is last on list)

Reading Order - Exercise



Colours & Contrasts

Not to forget:

- Make sure to have sufficient contrast between text (and other important info) and background
- Never use colour only to convey information

www.ethz.ch/e-accessibility

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Colours and Contrast

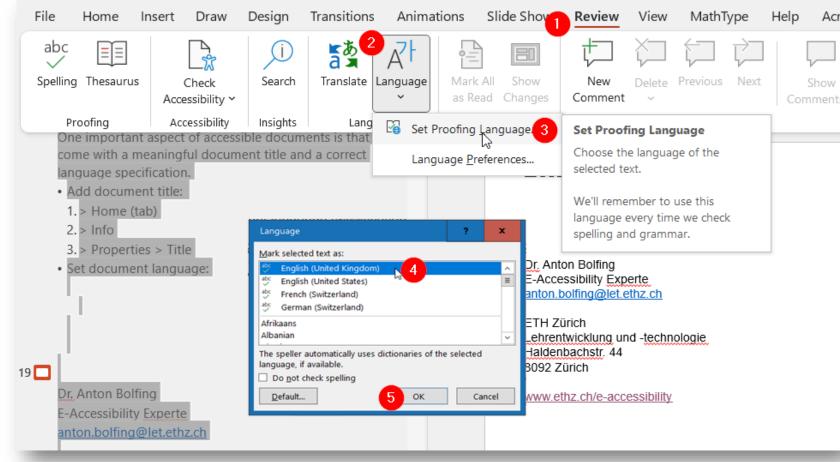


Meta data – document language specification

Make sure your document is set to the correct language. For spell check, but also for correct speech synthesis by screen readers.

- Mark all slides in Outline View:
 - 1. > View (tab)
 - 2. > Outline View
 - 3. > [Ctrl] + [A] on slides pane
- Set Language:
 - 1. > Review (tab)
 - 2. > Language
 - 3. > Set Proofing Language
 - 4. > (e.g.) English (UK)

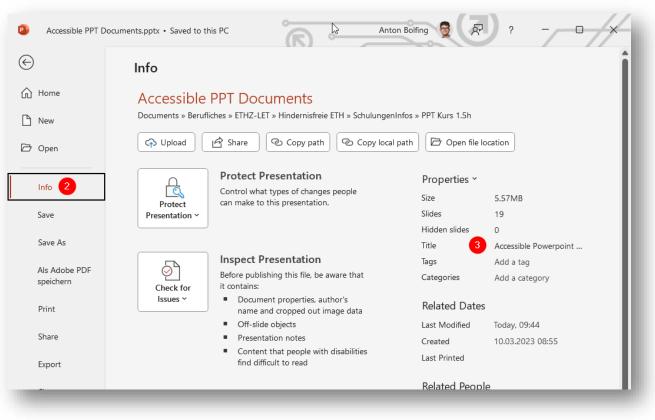
5. > OK



Meta data – document title

Another important aspect of accessible documents is that they come with a meaningful document title.

- Add document title:
 - 1. > Home (tab)
 - 2. > Info
 - 3. > Properties > Title



More on accessible MS Office docs on "Accessible PDFs from Word" (ETHZ, FAQs & Quick Wins)

More General Aspects in Office Documents

- Be careful with Font Effects
- Give meaningful link texts
- Even more aspects:
 > Refer to my <u>general workshop on accessible</u> <u>digital documents</u>

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Accessible PDFs export

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Find details on <u>Accessible Digital Documents Workshop</u> slides

PDF Accessibility Check and Remediation

- Check PDF accessibility using "PDF Accessibility Checker PAC" Screen reader preview
 - Download PAC
 - More details on checking PDF accessibility (accessible docs workshop)
- You can greatly improve the accessibility of your PDF document by directly edit it in Adobe Acrobat Pro
 - Contact me for a workshop
 - Get a <u>first impression on how to</u> postprocess your PDF for accessibility



Alternative presentation formats / General considerations

- The most important aspect of accessibility concerns in learning materials is the availability of all relevant learning content at a convenient location.
- That also means that:
 - Sometimes a lecture script, a text book, the lecture presentation slides, a learning video, the lecture recordings, all deliver redundant information on different channels.
 - In such cases, not every single learning channel or activity needs itself to be 100% accessible.
 - But make sure, that one of them is 100% accessible and that this one includes all relevant learning content. Lets call it the **fully accessible back bone** channel, usually the script.
- HTML over all
 - As we learnt, PPT is not particularly suitable for creating accessible content.
 - Therefore we recommend to check out other formats, such as HTML-slides to produce accessible presentation slides.
 - E.g. check out <u>https://slides.com/</u> or <u>https://revealjs.com/</u>. You might know it from <u>here</u>.

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