



# **Guide to Accessible Documents**

Creating an Accessible Document in  
MS Word 2016



**Fleming College**

**Accessible formats or communication supports for this document are available upon request.**

Lynda Staples  
Accessibility Facilitator  
Fleming College  
599 Brealey Drive,  
Peterborough, Ontario K9J 7B1

Phone: 705-749-5530 extension 1133  
Email: [lynda.staples@flamingcollege.ca](mailto:lynda.staples@flamingcollege.ca)

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# Background

## **The AODA is the Accessibility for Ontarians with Disabilities Act, enacted in 2005.**

### **Accessibility for Ontarians with Disabilities Act (AODA)**

The AODA is no ordinary piece of legislation. It is an ambitious means to ensure the inclusion of people with disabilities. Ontario is the first province in Canada and one of the first jurisdictions in the world to have legislation with a goal and deadline to make a province more accessible. Ontario is also the first jurisdiction to make accessibility reporting the law and has standards so people living with disabilities can enjoy increased participation in their communities.

### **Integrated Accessibility Standards Regulation (IASR)**

The IASR is a broad regulation. The requirements range from limiting the amount of flashing on a website to requiring organizations to consult with people with disabilities on the design and placement of benches along walkways. The IASR has a major impact on making information accessible.

### **Goal of this guide**

This guide serves as an introduction to accessible documents. The content provides a basic understanding of how to make Microsoft (MS) Word documents accessible. Instructions listed in the guide are for MS Word version 2016.

The checkpoints listed in this guide are generally transferable to other document creation and graphic design software. The checkpoints apply to information communicated in emails, reports, advertising, signage, program guides, infographics and websites.

# Accessibility Standards

## There are various standards for Accessible Documents.

**Offline information (information not posted to the College website)** The College will provide offline information in an accessible format upon request, in a timely manner, and at a cost no more than the regular price. Offline information produced by the College will meet the checkpoints listed in this [Guide to Accessible Documents](#).

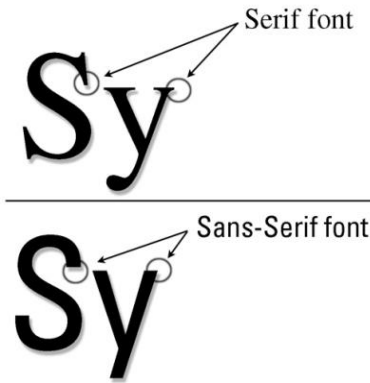
**Online information (information posted to the College website)** Online information will generally be available on the College website in HTML format. Where online information is more suitable in a document format, the information will be available as a PDF.

Online PDF documents will meet the checkpoints listed in this guide and the [Web Content Accessibility Guidelines](#), also known as [WCAG 2.0](#). They will include features such as tags, correct tab and reading order, bookmarks, advanced table attributes and document metadata such as document title, subject and author.

# Fonts Family

## Use sans-serif fonts.

A sans-serif font is easier to read than a serif font. Upper case, lower case and numerical characters of a sans-serif font are easy to recognize. Popular sans serif fonts include Arial, Calibri, Helvetica, Futura and Verdana.



**Tip:** Documents limited to a few fonts are easier to read. Too many fonts can create a confusing visual layout. Avoid narrow, serif, monospace, decorative, or handwriting fonts.

Arial	This font is accessible
Arial Narrow	This narrow font is not accessible
Times New Roman	This serif font is not accessible
Courier accessible	This monospace font is not accessible
Chiller	This decorative font is not accessible
<i>Monotype Corsiva</i>	<i>This handwriting font is not accessible</i>

# Font Size

## Make text large enough.

The size of the font, measured in points (pt), is a fundamental factor in legibility. Font size 12, based on the Arial font sizing, is the College standard font size for main body text in a document. A minimum font size 16 is the College standard for information communicated on large format screens. Avoid font size 11 and smaller where possible.

Font Size 11            11 pt or less is not accessible

Font Size 12            12 pt is accessible

Font Size 16            16 pt or more for presentations

**Tip:** Font size varies between font families. When selecting a font size, use Arial as the base for determining appropriate font size.

For example:

12 pt Arial is an accessible font size.

12 pt Calibri is not accessible. It is similar in size to 11 pt Arial.

13 pt Calibri is accessible. It is similar in size to 12 pt Arial.

11 pt Verdana is accessible. It is similar in size to 12 pt Arial.

# Bold, Italics and Underlining

## Use bold for emphasis, avoid italics and use underlining for links only

Use **bold fonts** for emphasis to make certain words and phrases stand out from surrounding text. Use restraint to ensure only the most important information has emphasis. Whole paragraphs of text set in bold type are hard to read. Use bold formatting for titles, headlines or key words and phrases.

*Italic fonts* are more difficult to read than regular fonts. There may be exceptions to using italics, such as when required to meet standard formatting (for example, citation in legal documents or Latin versions of tree species). Avoid italics where possible.

**Underlining** interferes with lower case letters. Do not use underlining to emphasize words and phrases. Underlining is an outdated method to emphasize text. People used underlining when manual typewriters did not have bold or italic styling. Only use underlining as the standard option to emphasize links for email addresses and websites.

### Tip:

---

Avoid floating line work. To add lines in MS Word 2016, select the **Home** tab and use the **Borders** tool in the **Paragraph** group.

Adjust the **Right Indent** and **Left Indent** markers to set the length of a line.

Use restraint when adding line work to a document. Ensure the layout and design of the line work is not confused as a web link



# Links

## Use descriptive words for links, add a screen tip and provide the full URL

### Use descriptive words for links

Screen reader users often scan or search for hyperlinks, so it is important to make sure these links make sense without their surrounding content. Links are more accessible when the link text briefly describes the destination. Avoid non-descriptive link phrases such as “here”, “click here”, “read more” or “learn more”.

### Add a screen tip for links

A screen tip is a small pop-up window that displays when a mouse pointer hovers over a link. In MS Word 2016, select the **Insert** tab and add a screen tip with the **Hyperlink** tool in the **Links** group. A screen reader will read out the screen tip.

### Provide the full URL for links

Documents with the potential to be printed should include the full URL in a footnote, appendix or in brackets after the live link. The standard visual representation for a link is:

- Underlined text.
- **Blue** for a link not visited (HEX #0000FF, RGB 0-0-255).
- **Purple** for a visited link (HEX #800080, RGB 128-0-128).

### Sample

Refer to the College’s [Guide to Accessible Documents](https://department.flemingcollege.ca/accessibility-centre/).  
[https://department.flemingcollege.ca/accessibility-centre/]

Do not use: Click [here](#) for the Guide to Accessible Documents.

# Upper and Lower Case

## Use a combination of upper and lower case letters.

### Lower case letters are easier to read

Lower case letters provide word shape. The shape of a word provides mental reading clues and speeds up the process of reading. A sentence written with a combination of upper and lower case letters is easier to read.

CAPITALS DON'T GIVE CLUES.

Different shapes give clues.

### Exceptions

It may make sense to use all upper case in some instances, such as short headings or titles with a maximum of two words. Upper case letters intended to represent a graphic design element of a document are acceptable, such as random letters on the front cover of this guide. These two examples will not benefit from the mental reading clues provided with lower case letters.

### Do you really want to SHOUT?

Upper case can give the impression of shouting. If the intent is to convey a shout, an exclamation point is better. Screen readers do change the voice inflection for sentences with exclamation points.

# Text and Image Alignment

## Align text to the left margin and avoid floating images.

**Text aligned to the left margin** makes it easier to find the start of the next line and keeps spacing between the words even.

**Centre text alignment** is not accessible.

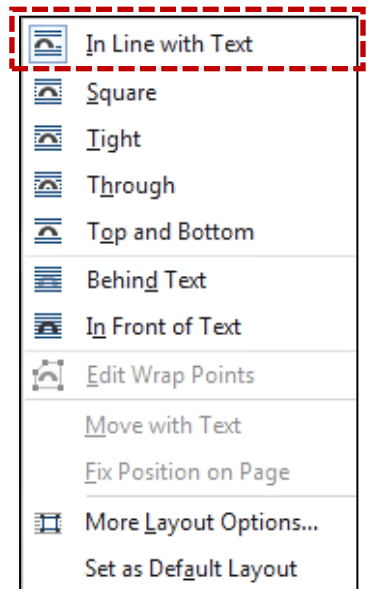
A person with low vision may set up their device to zoom in at five times the normal display. They would rely on left alignment to find the starting point of a line and may unintentionally skip content in the middle of a page.

**Justified text alignment** is not accessible. It causes uneven spaces between words and is more difficult to read.

### Image alignment:

Avoid floating images. When inserting images and other non-text content, align to the left of the page. Place images and non-text content above or below text with the MS Word **In Line with Text** wrap text option.

**Tip:** When it is desirable to align an image to the right, try using the MS Word **Columns** tool. The screen shot to the right shows the MS Word wrap text options. The image is **In Line with Text** on column 2 but appears as floating. With this method, a screen reader will read the image's alt text in the order intended.



# Styles Tool

## Use 'Styles' to create structure and help all users navigate a document.

### Headings create structure

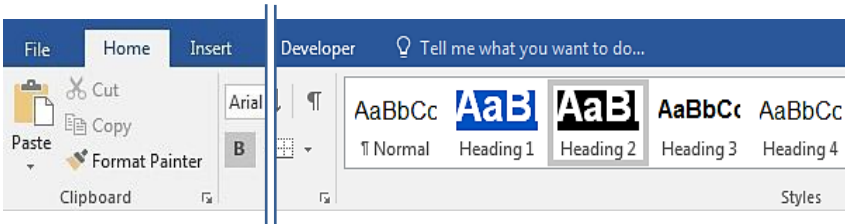
People typically skim and scan content on a page to decide what to read. Properly formatted headings visually stand out from the rest of the content and briefly describe what is in each section, so people can skip ahead and find the section they need.

### How to create structure in MS Word

Format headings with the [Styles](#) tool.

The image below shows the [Styles](#) gallery in the [Home](#) tab. Use [Heading 1](#) style for the main title and [Heading 2](#) style for main sections.

Use a nested structure and do not skip heading levels.



Headings formatted with the [Styles](#) tool populate a skip navigation menu for the document. To use the skip navigation menu, select the [View](#) tab, toggle on the [Navigation Pane](#) and select [Headings](#).

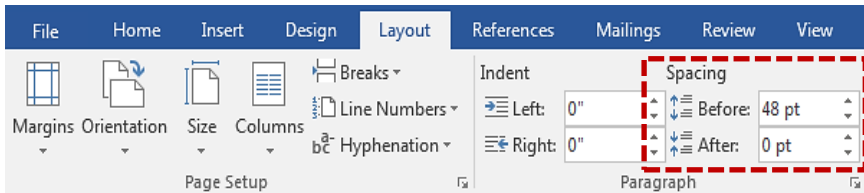
**Tips:** Headings formatted with the Styles tool can auto generate a table of contents with live links and bookmarks in the PDF version of a document. Headings formatted with the Styles tool will also benefit from consistent formatting throughout the document.

# Spacing

## Do not use enter, space or tab keys to add white space.

### Properly add space before or after content

Customize the amount of space before or after content with the [Paragraph Spacing](#) tool or set default spacing with the [Styles](#) tool.



### Use a single space between punctuations.

Double-spacing after a period, question mark, exclamation point or colon is an old style of typography that is no longer a standard.

### Page Break tool

Do not press Enter repeatedly to start a new page. Insert a page break to start a new page.

### Columns tool

Do not use blank spaces and tabs to create a column effect. Use the [Columns](#) tool in the [Layout](#) tab.

**Tips:** The MS Word [Show/Hide](#) paragraph marks tool in the [Home](#) tab will help you find any blank spaces in a document.

Repeated blank characters can confuse a screen reader. If you press the Enter key two or more times, a screen reader may interpret the “enter” as a new paragraph with no text. A screen reader may communicate the word “blank” for every blank line

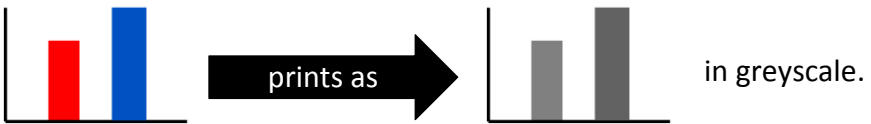
# Colour

## Ensure colour is not the only means of conveying information.

Pay attention to the use of colour in a document to ensure the information makes sense for people who are colour blind and people with low vision. Good use of colour means a document printed in black and white is as meaningful as the colour version.

Tips for using colour	Sample
▪ Design in greyscale.	Good
▪ Add shapes or symbols when colour is used to compare information.	✓
▪ Include text with colour-coded icons.	✓ Good
▪ Print in black and white and check if coloured content is legible and meaning is conveyed.	✓
▪ <b>Do not</b> use colour alone to make a comparison of information, especially in charts and graphs.	

### Poor use of colour



### Good use of colour



# Contrast

## Use good contrast between the background and foreground.

Use minimum 4.5:1 contrast ratio for text smaller than 18pt. Use minimum 3:1 contrast ratio for text 18pt or larger, bold text 14pt or larger, and non-text information that has meaning.

### What does good contrast look like?

Test Number	Font Size	Contrast Ratio	Result
Test 1	12pt regular	21:1	Pass
Test 2	12pt regular	21:1	Pass
Test 3	12pt regular	19.5:1	Pass
Test 4	12pt regular	15.3:1	Pass
Test 5	12pt regular	14.9:1	Pass
Test 6	12pt regular	10.4:1	Pass
Test 7	12pt regular	7:1	Pass
Test 8	12pt regular	6.5:1	Pass
Test 9	12pt regular	4:1	Fail
Test 10	12pt bold	4:1	Fail
Test 11	14pt bold	4:1	Pass
Test 12	18pt regular	4:1	Pass
Test 13	12pt bold	3.04:1	Fail
Test 14	12pt bold	2.18:1	Fail
Test 15	12pt bold	1.43:1	Fail

Use a contrast test tool such as [Snook Contrast Checker](#) to test colour combinations and determine the exact contrast ratio.

[[www.snook.ca/technical/colour\\_contrast/colour.html](http://www.snook.ca/technical/colour_contrast/colour.html)]

# Alt Text

## Add a short description for images, tables, charts, shapes, embedded objects, and audio/video files.

“Alt text”, or alternative text, is a brief description of any object inserted into a document. A person who uses a screen reader will read alt text to understand non-text information. The alt text will display in place of an image when software does not support the display of images. As a bonus, search engines read alt text.

The following wave graphic has the alt text **Title** “wave icon” and alt text **Description** “City of Peterborough wave graphic”. A screen reader will read “Image of City of Peterborough wave graphic”.



### How to add alt text for an image in MS Word 2016

Right click the image and select **Format Picture**. Select the **Layout & Properties** icon. Select **Alt Text**. Add alt text in **Description** field.

### Tips for writing alt text

- Be brief. Use maximum 125 characters.
- Describe the important content or purpose of the object.
- Do not start with “image of”, “table of”, or “link to”. A screen reader will read out what type of content the object is.
- Tell the screen reader to skip the object if it has no meaning. Use alt text of two double quotes with no spaces between (“”).



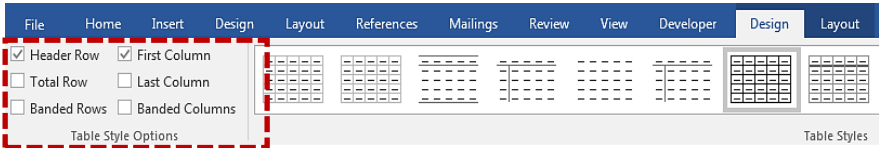
# Tables and Charts

## Keep tables and charts simple.

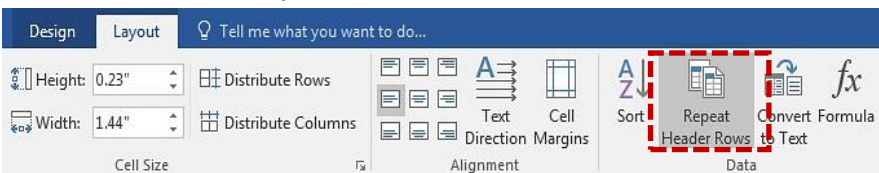
Tables and charts can make a large amount of information clear to readers. Use the checkpoints in this guide to help make tables and charts accessible, such as use minimum font size 12.

### How to create accessible tables in MS Word 2016

- Avoid tables as a method to layout content in a document.
- Avoid merged cells, empty cells and nested tables.
- Add a header row at the top of the table to describe columns.
- Set the table style that best describes the table design:
  1. Place the cursor in the table and select **Design** tab.
  2. Check the **Table Style Options** that describe the table. For example, check “header row” for a table with a header row.



- Set the header row to repeat at the top of each page.
  1. Place the cursor in the header row and select **Layout** tab.
  2. Select **Repeat Header Rows**.



- Add alt text.
  1. Right click the table. Select **Table Properties**.
  2. Select **Alt Text** tab. Add alt text in the **Description** field.

# Document Navigation

## Use auto generated table of contents and page numbering tools.

Never create a manual table of contents. Tag headings in a nested structure with the [Styles](#) tool and MS Word can automatically generate a table of contents with live links.

### How to insert a table of contents (TOC) in MS Word 2016

1. Place cursor where you want the TOC to appear.
2. Select [References](#) tab and select the [Table of Contents](#) tool.
3. Select [Custom Table of Contents](#). A menu displays.
4. Choose a [Tab Leader Style](#).
5. Choose a [Show Levels](#) option.
6. Select [OK](#). The table of contents appears in your document.
7. Customize the appearance of the table of contents with the [Styles](#) tool. Modify style [TOC1](#) to control Heading 1 in the table, [TOC2](#) style to control Heading 2 in the table, and so on.

**Tip:** Do not forget to update the table of contents when making changes in a document. To update the table, select the [References](#) tab and select [Update Table](#). Alternatively, place your cursor anywhere in the table, right click, and select [Update Field](#).

### How to insert page numbers in MS Word 2016

Microsoft Office products have a variety of automatic page numbering styles. In MS Word, select the [Insert](#) tab and use the tools in the [Header & Footer](#) group.

## Date Format

# The international standard for date format is yyyy-mm-dd.

Date formatting varies around the world. Some formats may confuse readers and cause misunderstandings. The simplest way to write a date is to spell out the month portion of the date and use four digits for the year.

By default, use the international date format of yyyy-mm-dd for consistency and ease of reference.

**April 2, 2018** is accessible.

**2 April 2018** is accessible.

**2018-04-02** is accessible and preferred when incorporating the date into a file name.

# Reading Level

## Aim for a Grade 3 to 6 reading level.

Use simple language to make a document easy to read the first time. All readers, especially people with cognitive, neurological, and developmental disabilities will benefit from simple language.

### Tips

- Write for your audience.
- Use short sentences and paragraphs.
- Use simple sentence structure and grammar.
- Use simple everyday words instead of technical words.
- Use full words instead of abbreviations.
- Use a positive tone.
- Use an active voice.

### Example

**Original (grade 11.6)** – City residents who have limbs and debris from privately owned trees are asked to use the City's Green Waste Collection program for their disposal needs.

**Plain Language (grade 5.9)** – The City has a Green Waste Collection program. Use this system to dispose limbs and debris from trees on private property.

### How to turn on Readability Statistics in MS Word 2016

1. Select **File** tab to open the backstage view of the document.
2. Open the **Options** section.
3. Select the **Proofing** menu.
4. Toggle on **Show readability statistics** and select **OK**.
5. Run the **Spelling & Grammar** tool to check the **Grade Level**.

# Lists

## Use auto generated bullets or numbering systems.

A list created in MS Word with the [Bullets](#), [Numbering](#) or [Multilevel List](#) tools will tag the list in the document structure and package it as a list of related items. A screen reader will know how many items are in the list and understand the start and end of the list. If you manually create a list, a screen reader will not understand how the items are related. A screen reader will interpret a manual list as a series of short separate paragraphs.

MS Word 2016 list tools are located in the [Paragraph](#) group in the [Home](#) tab.



### Tips for creating lists in MS Word 2016

- Use a numbered list if the information is sequential.
- Use a bullet list for unordered items.
- Right click a bullet list item to [Separate List](#) or [Join to Previous List](#).
- Right click a numbered list item to [Restart Numbering](#), [Continue Numbering](#) or [Set Numbering Value](#).

# Forms

## Make forms electronic.

Some people are not able to print a form and complete it by hand with a pen. An electronic form allows a person with a disability to complete the information electronically with assistive technology such as a screen reader or speech recognition software.

Electronic forms are not automatically accessible. They require enhanced coding when available in html and CSS format and require enhanced tagging when available in PDF format.

### Design Tips

- Start with general information, instructions and contact.
- Organize the fields in a logical manner.
- Use short and basic questions.
- Mark the required fields.
- Use standard field formatting for phone numbers and dates.
- Provide sufficient space for signatures.

### Function Tips

- Allow users to turn off, adjust or extend forms with time limits.
- Make the form keyboard accessible.
- Label all fields and include a tooltip (screen tip) for each field.
- Test the tab order. Use the Tab key to jump from field to field.
- Test radio buttons and check boxes.
- Test all fields for font family, size and colour.
- Test all fields for text alignment and wrapping.
- Review and repair document tags as needed.
- Run accessible document checker tools.

# Document Properties

## Set the document title, subject, author, keywords and language.

Document properties, also known as metadata, are details about a file that describe and identify it before opening the file. Search engines and screen readers use the document properties to find the title, subject, author, keywords and language of a document.

### Set document properties in MS Word 2016:

1. Select **File** tab to open the backstage view of the document.
2. Open the **Info** section.
3. Select the **Properties** drop-down menu.
4. Select the **Advanced Properties** command.
5. Select the **Summary** tab and enter text in the empty fields.

#### Metadata Tips

Title – use the same text as the title in the document

Subject – use maximum 25 words to summarize the content

Author

Keywords – words that describe document audience and purpose

### Set document language to English in MS Word 2016:

Set the language so a screen reader correctly enunciates content.

1. Follow steps 1 to 4 above.
2. Select the **Custom** tab.
3. Enter “English” in the **Value** field and select **Add**.

**Tip:** Proofing language is not the same as document language. Proofing language is set for each word. To set proofing language, select **Review** tab and **Language**.

# Accessibility Checker

## Use the accessibility checker tool to find and repair accessibility issues.

The MS Word [Check Accessibility](#) tool inspects a document for accessibility issues. Choose an item listed in the “Inspection Results” panel and MS Word will navigate to that part of the document and highlight the issue. The checker explains why and how to fix the issue. Accessibility issues fall into three categories:

### Errors

The most serious issues are errors. An error means content is unavailable for a person who uses assistive technology, especially if they rely on screen reading programs.

### Warnings

These are less serious but still make it difficult for a person with a disability to read a document.

### Tips

Tips list issues that might cause problems. Fixing these will help optimize your documents readability for everyone.

#### **Check Accessibility in MS Word 2016:**

- Select [File](#) tab to open the backstage view of the document.
- Open the [Info](#) section.
- Select the [Check for Issues](#) drop down button in the [Inspect Document](#) area.
- Select [Check Accessibility](#) command to launch the task pane



# Tagged PDF

## Tag all content in a PDF document.

Tagging is an important part of making an accessible PDF document for people who use screen readers. All content in a PDF requires a tag. Even elements of a page that are decorative or in the background require a tag called an “artifact”.

PDF tags require careful human inspection, testing and repair by a person who is trained and experienced in accessible PDFs.

Tags set the order of how a screen reader navigates through information, so even small errors in the tag structure can make a document inaccessible.

### Save an MS Word 2016 document as a tagged PDF

1. Select the [File](#) tab and select [Save As](#).
2. Choose where you want to save the file.
3. Change the [Save as type](#) drop-down to [PDF](#).
4. Select the [Options](#) button to open the Options menu.
5. Select the [Document structure tags for accessibility](#), the [Document properties](#) and the [Create bookmarks using Headings](#) check boxes.
6. Select [OK](#) and select [Save](#).

**Tip:** If you have Adobe Acrobat installed on your computer, you may be able to go to [File](#), [Save as Adobe PDF](#) directly.

# Accessible Document Checklist

- Sans-serif fonts
- Minimum 12 pt font
- Minimal Bold fonts
- No italic fonts
- Underline for links
- Descriptive words for links
- No upper case words
- Left align
- Heading structure (Styles)
- No blank spacing
- Colour works in greyscale
- Good contrast
- Alt text
- Simple tables and charts
- Table of contents
- Page numbers
- Date format
- Reading Level Auto generated lists
- Electronic forms
- Set document properties
- Set document language
- Accessibility checker
- Tagged PDF

# Notes

# Fleming College

flemingcollege.ca

1.866.353.6464

Our **Fleming.**  
Our **Future.**

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*“The role of genius is not to complicate the simple, but to simplify the complicated.”*

*Accessibility is Simple!*

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