

# Building Brands Optimized for Accessibility

Sabrina Young RGD, Principal & Creative Director



# idea

The Experience + Accessibility Leaders

Design + Media Inc.





Automate the tedious, optimize accessibility and improve brand consistency, throughout your document designs, while gaining more time for your creative process.





#### Accessibility doesn't need to be a dauting undertaking, by implementing some basic workflow techniques and thinking accessibility first you can be inclusive and streamline compliance.





# Accessible brand colours

Colour contrast checkers + brand colour sheets

#### Colour checkers







Colour Contrast Analyser app Web AIM contrast checker

Sim Daltonism application

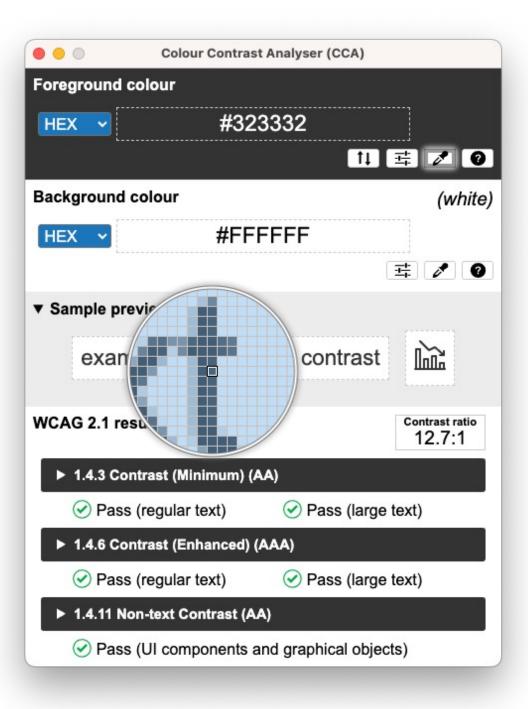
Colour contrast checkers

Colour blindness checker



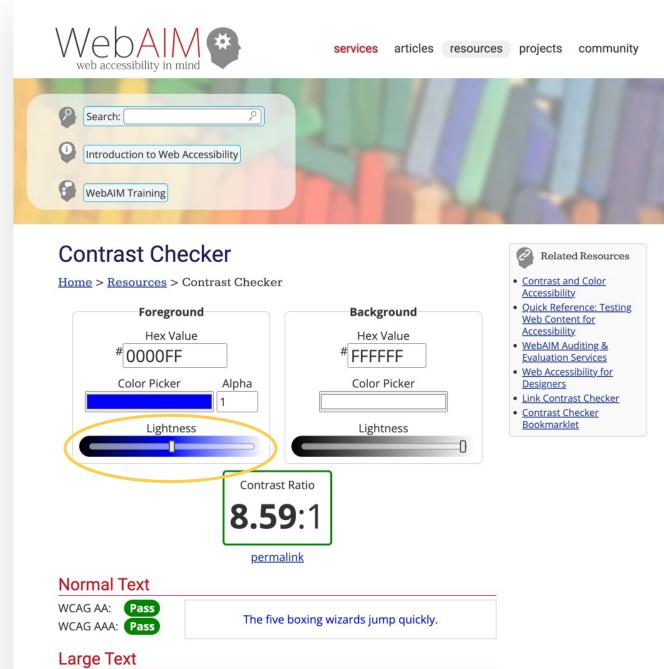
#### Colour Contrast Analyser application

 Mac and Windows Platforms <u>developer.paciellogroup.com/</u> <u>resources/contrastanalyser</u>



#### Web AIM contrast checker

 Website webaim.org/resources/ contrastchecker



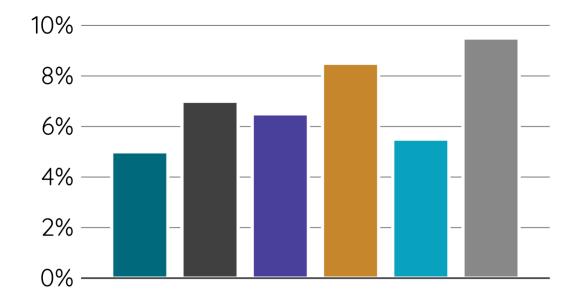
WCAG AA: Pass WCAG AAA: Pass

The five boxing wizards jump quickly.



# Sim Daltonism application

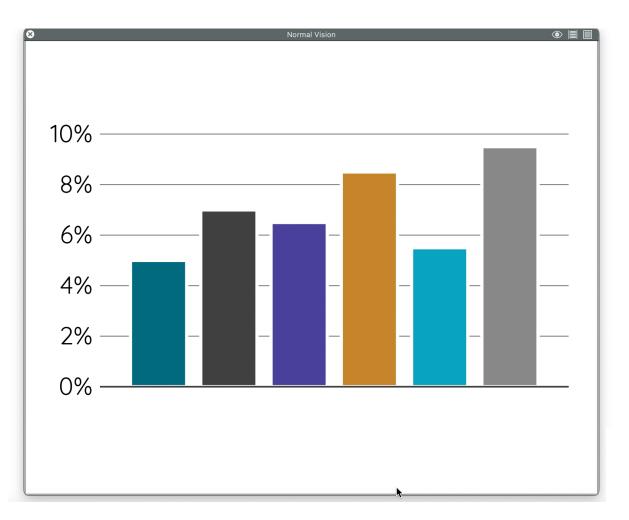
 Available for Mac only <u>itunes.apple.com/ca/app/sim</u> <u>-daltonism/id693112260?mt=12</u>





# Sim Daltonism application

- Red-Green colour blindness: Deuteranopia, Deuteranomaly, Protanopia, Protanomaly
- Blue-Yellow colour blindness: Tritanopia, Tritanomaly
- All colours: Monochromacy, Partial monochromacy





## Sim Daltonism application

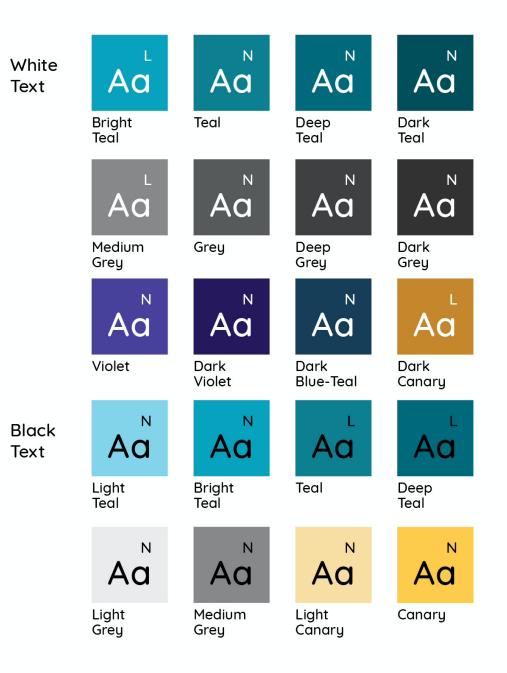
#### Example:





#### Brand colour sheets

- **N** = Normal text AA level colour contrast compliant (4.5:1).
- L = Large text AA level colour contrast compliant (3:1). Minimum requirement of 18pt font or 14pt bold weight font.





#### Brand colour sheets

## For graphical objects and UI components

- A minimum contrast ratio of 3:1 is required
- It must be large or normal text compliant to be used for important graphical objects

Canary Text	L AC Teal	L AC Deep Teal	N AC Dark Teal	N AC Deep Violet
	N AC Grey	N AC Deep Grey	N AC Dark Grey	N AC Dark Violet
Light Canary Text	L AC Teal	N Aa Deep Teal	N Aa Dark Teal	N AC Deep Violet
	N AC Grey	N AC Deep Grey	N AC Dark Grey	N AC Dark Violet
Teal Text	Aa	Aa	Aa	
	Canay	Light Conary	Light Grey	





# Building brand asset repositories

Streamlined for accessibility workflows



#### Asset repositories

# Add ALT text to source files whenever possible

- Logos and tagline files
- Photography banks
- Charts and graphs
- Other data visualizations





# Logos & other asset files

 Add ALT text within source files





# Logos & other asset files

Add ALT text within source files

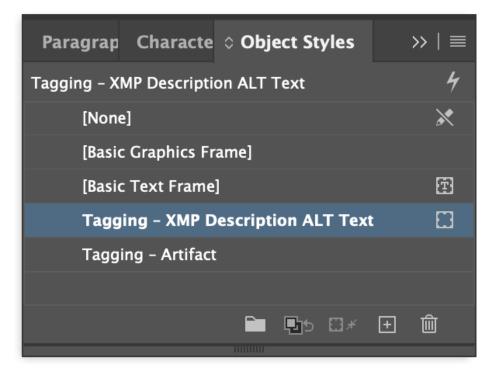
**How to:** go to *File > File Info...* under the *Basic* tab, enter ALT text into the *Description* field

	TealCS_RGB.ai		
Basic	Document Title:	TealCS_RGB	
Camera Data	Author:	Teal Creative Studio	
Origin IPTC		<ol> <li>Semicolons or commas can be used to separate multiple values</li> </ol>	
IPTC Extension	Author Title:		
GPS Data Audio Data Video Data	Description:	Brandmark of Teal Creative Studio	
Photoshop	Pating		
DICOM			
AEM Properties	Description Writer:		
Raw Data	Keywords:		
		<ol> <li>Semicolons or commas can be used to separate multiple values</li> </ol>	
	Copyright Status:	Unknown ~	
	Copyright Notice:		
Powered By	(Preferences) Te	mplate ~ Cancel OK	



#### Object Styles within InDesign

- Easily apply the tagging with one click
- Use with all linked assets that have ALT text added to the source files





#### Setting up Object Styles

#### **ALT Text**

From XMP Description

#### **Tagged PDF**

- Apply Tag: From Structure
- Actual Text Source: From XMP Description

	Object Style Options
Style Name: Location:	Tagging - XMP Description ALT Text
Basic Attributes	Tagged PDF
General Genera	Apply Tag: From Structure     Actual Text Source: From XMP:Description   Property: Custom   Prom Structure From XMP:Title   Image: From XMP:Description From XMP:Meadline   From Other XMP From XMP:Alt Text (Accessibility)   From XMP:Extended Description (Accessibility)
EPUB and HTML	
Preview	Cancel OK



#### Setting up Object Styles

#### Artifact objects

#### **Tagged PDF**

- Apply Tag: Artifact
- Actual Text Source: From Structure

	Object Style Options	
Style Name: Location:	Tagging – Artifact	
Basic Attributes	Tagged PDF	
General		
🖨 Fill	Apply Tag: Artifact ~	
Stroke	Actual Text Source: From Structure	
Stroke & Corner Options		
Size and Position Options	Property:	
Paragraph Styles		
Text Frame General Options		
Text Frame Column Rule Options		
<ul> <li>Text Frame Baseline Options</li> <li>Text Frame Auto Size Options</li> </ul>		
Text Frame Footnote Options		
Effects for: Object ~		
Transparency		
Drop Shadow		
Inner Shadow		
Outer Glow		
Inner Glow		
Bevel and Emboss		
Export Options		
🗹 Alt Text		
✓ Tagged PDF		
EPUB and HTML		
Preview	Cancel OK	





How do you know when to add ALT text to source files or not?





## Ask yourself

- Will the file be added to a general asset repository?
- Will it be used in any other materials now or in the future?



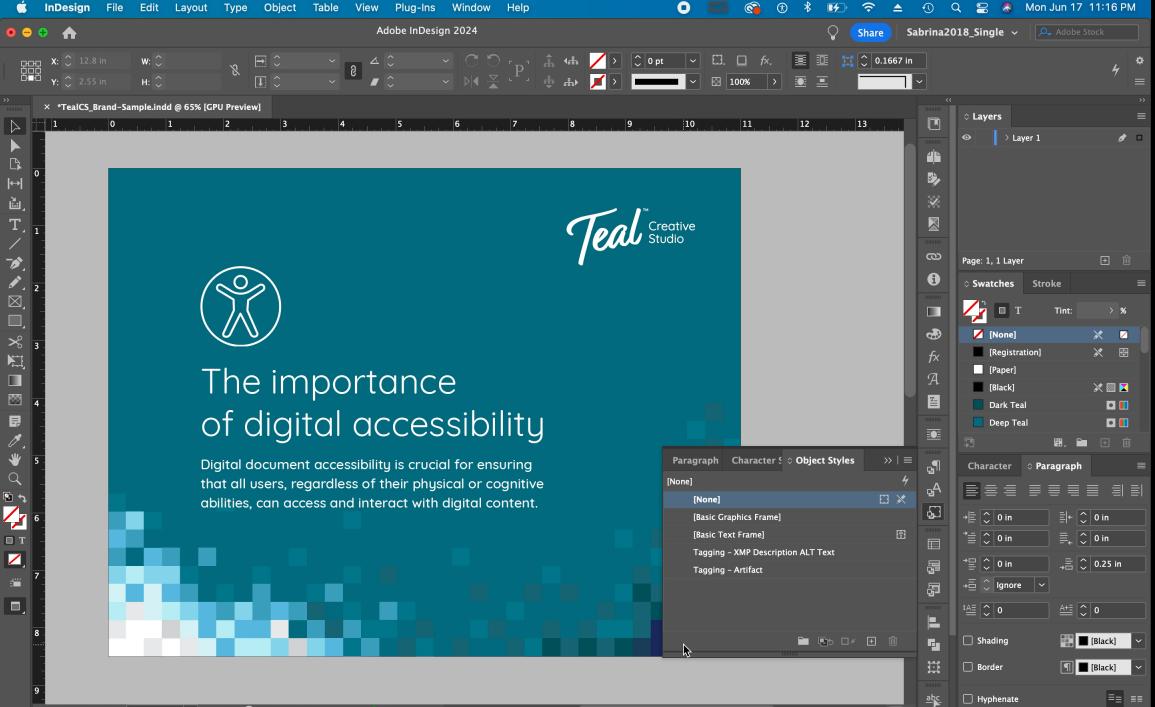


## How do you handle ALT text for **different languages?**





# Generally, the best method is to have **separate art files per language**



65% 🗸 📢 🖣 1 👘 🕑 🕨 🖌 🖓 [Basic] (working) 🗸 🕒 No errors 🗸





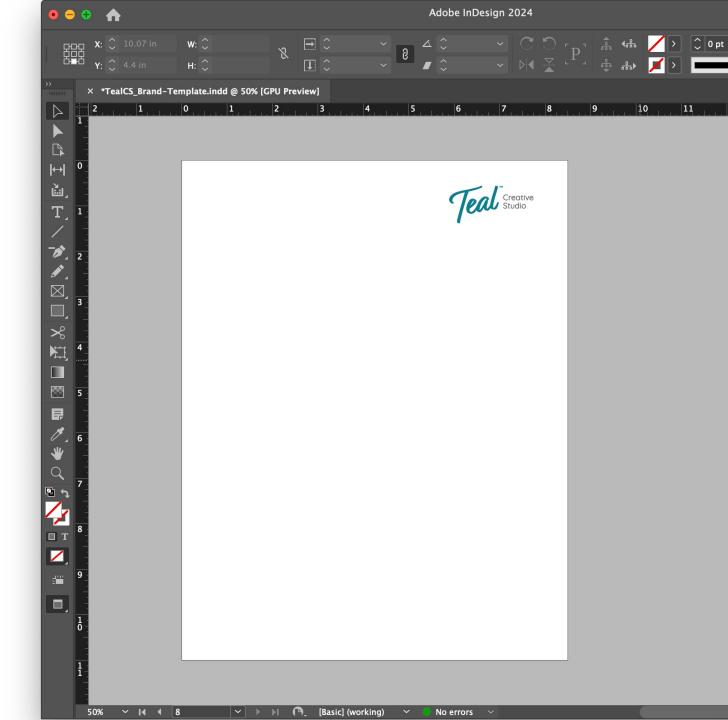
# Develop InDesign templates

Ease your accessibility efforts through built-in settings and styles that work for your branding



#### InDesign templates

- Built-in Styles
- Brand consistency
- Improved efficiencies and accessibility
  - Less time and effort required by a designer







## Tips

**Do not name your paragraph or character styles by their tags only** – It can confuse some PDF checkers and screen readers

• i.e. Caption, H2, etc.

#### Edit All Export Tags

Show: O EPUB and HTML O PDF

Style	Тад
¶ [Basic Paragraph]	[Automatic]
¶ H1 – Header	H1
¶ H1 - Header - Canary	H1
¶ H2 – Sub-Header	H2
¶ H3 – Sub-Header	Н3
¶ P – Intro	Р
¶ P – Intro – WHITE	Р
¶ P – Callout Line	Р
¶ P – Callout Line – WHITE	Р
¶ P – Body Copy	Р
¶ A – Bulleted List	[Automatic]
¶ A – Bulleted List 2col	[Automatic]
¶ A – Checkmark List	[Automatic]
¶ A – Table Header	[Automatic]
¶ A – Table Sub–Header	[Automatic]
¶ A – Table Body Copy	[Automatic]

**How to:** go to the *Paragraph Styles* panel options fly-out menu and select *Edit All Export Tags* and toggle to *PDF* at the top left corner of the pop-up window

ОК

Cancel



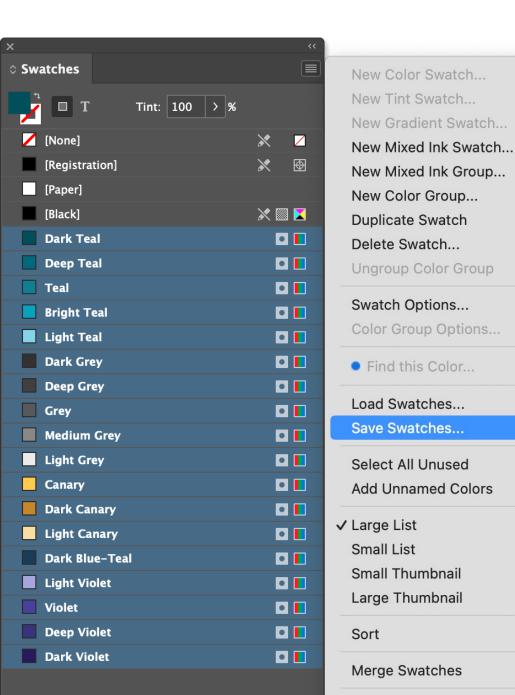


## Add any styles into various InDesign documents By selecting 'Load Philes (Jess' from the panel Options menu



#### Swatches

- Importable colour swatch files
- Built with accessibility in mind



>

#### Other built-in styles

Footnotes and endnotes

Footnote O	ptions
Numbering and Form	atting Layout
Span Footnotes Across Columns	
Spacing Options	
Minimum Space Before First Footnot	
Space Between Footnote	es: 0.025 in
First Baseline	
Offset: Leading	✓ Min: ↓ 0 in
Placement Options	
Place End of Story Footnotes at B	ottom of Text
Allow Split Footnotes	
Rule Above: First Footnote in Colum	n 🗸 🗹 Rule On
Weight: 1 pt 🛛 🗸	Type: 🗾 🗸
Color: 🗌 Light Grey 🗸 🗸	Tint: 30% ~
🗌 Overprint Stroke	
Gap Color: 🛛 [None] 🛛 🗸	Gap Tint: 100% 🗸
🗌 Overprint Gap	
Left Indent: 0 in	Width: 1 in
Offset: 0.08 in	
Preview	Cancel OK

#### Other built-in styles

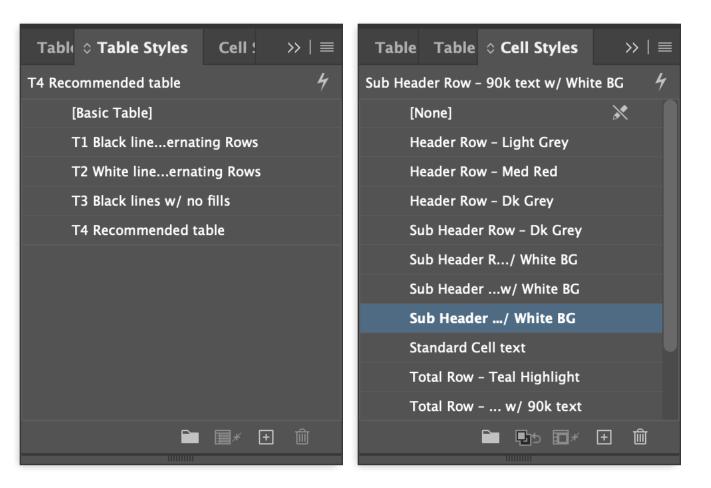
Footnotes and endnotes

Table of Contents

Table	of Contents	
TOC Style: [Default] ~ Title: Contents Sty	le: H1 - Header 🗸 🗸 🗸	ОК Сancel
Styles in Table of Contents Include Paragraph Styles: H1 - Header H1 - Header - White H2 - Sub-Header H2 - Sub-Header - White Remove >>	Other Styles: [No Paragraph Style] A – Bulleted List A – Checkmark List A – Footnotes	Save Style Fewer Options
Style: H3 – Sub Sub-Header – White Entry Style: A – TOC Bulleted List Page Number: After Entry Between Entry and Number: At Sort Entries in Alphabetical Order	Style: [None] ~ Style: [None] ~ Level: 4	
Options Create PDF Bookmarks Replace Existing Table of Ontents Include Book Documents Make text anchor in source paragraph Remove Forced Line Break Numbered Paragraphs: Include Full Paragraph	) Run-in ) Include Text on Hidden Layers	

#### Other built-in styles

- Footnotes and endnotes
- Table of Contents
- Tables with cell styles



#### H1 – Header

#### H2 – Sub-Header

P – Intro: Git reptasimus et omniae. Quidesti utem qui dendissit, aut moles experes.

#### H3 – Sub-Header

P – Body Copy: Archil molorepe re sinulla borehenis repro tem fugit.

- A Bulleted List
- A Bulleted List

A - Bulleted
 A - Bulleted
 List 2col
 A - Bulleted
 List 2col
 A - Bulleted
 List 2col
 List 2col

- 🗸 A Checkmark List
- ✓ A Checkmark List

P – Callout Line: Rovit, que voloriam ipsumquam aml.

#### H1 – Header– Canary

P – Intro – WHITE: Git reptasimus et omniae. Quidesti utem qui dendissit, aut moles experes tiscipsamus se consedit, optus del modit lam.

P – Callout Line – WHITE: Rovit, que voloriam ipsumquam am exeremo blautem.

#### T1

A – Table Header	A – Table Header	A – Table Header
A – Table Sub-Header	A – Table Body Copy	A – Table Body Copy
A – Table Sub-Header	A – Table Body Copy	A – Table Body Copy
A – Table Sub-Header	A – Table Body Copy	A – Table Body Copy





## Incorporate workflow techniques

Create more accessible documents out of InDesign

### Threading text frames

- A screen reader user relies on headings to understand the document's hierarchy and quickly find relevant sections.
- Without a clear structure, users can become disoriented and frustrated, reducing the effectiveness of the document.

#### Impacts of inaccessibility

- Accessibility in digital documents also has significant legal implications.
- Various laws and regulations worldwide mandate digital accessibility, such as the Web Content Accessibility Guidelines (WCAG) developed by the World Wide Web Consortium (W3C).
- Non-compliance can result in legal actions, financial penalties, and damage to an organization's reputation.
- Ensuring digital documents are accessible is not just a matter of social responsibility but also a legal obligation.
- Organizations that prioritize accessibility can avoid potential legal issues and demonstrate their commitment to inclusivity and diversity.

Making digital documents accessible can have a broader impact on society by promoting digital literacy and reducing the digital divide.

# Anchoring objects within text frames

- Aids in proper reading order for objects requiring ALT text
  - Click and drag the blue solid box into your text frame in the desired location



Accessibility in digital documents has significant legal implications.



### Parent Page items

- InDesign automatically Artifacts your objects
- However, not all accessibility checkers are equal
  - Additional Artifacting is required to receive a passing report outside of Acrobat

- Interactive buttons and form fields plus any graphics requiring ALT text should not be placed on Parent Pages
  - Or override the object directly on each page required
  - To override only one Parent Page object on your page:
  - Shift + Command + Click on it



		l		
		-	-	
Ŀ	-			J

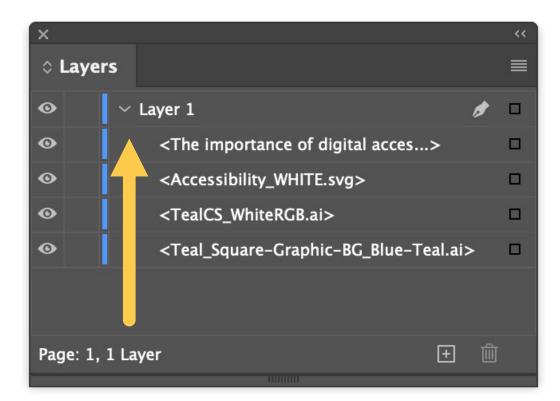
## Minimize remediation work within your final PDFs

Articles panel and Layer order in InDesign



### Layer Order

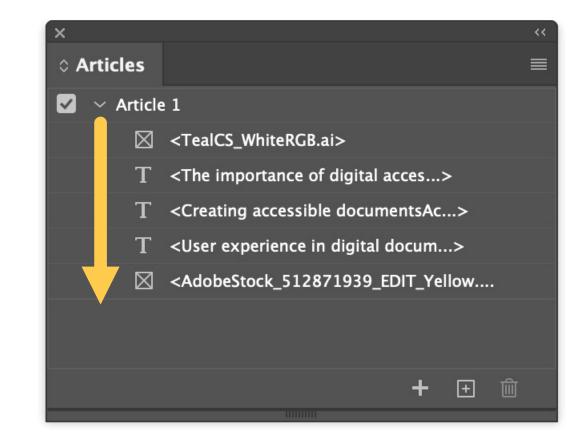
- Controls the reading order within your PDF
- Sets your reading order from the bottom layer object up to the top

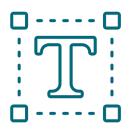




### **Articles Panel**

- Sets the reading order
   from the top object down
- Controls the Tag order within the PDF which is used by a majority of screen readers





### **Articles Panel**

- Use as many or as little articles as you want in your document
- Ensure you active "Use for Tagging Order in Tagged PDF" from the option menu

×		<<
<ul><li>◇ Articl</li><li>✓ ✓ ✓</li></ul>	New Article Delete	=
	Article Options	
	Go to Item	
	/ Use for Tagging Order in Tagged PDF	
	Add Selection to Selected Articles Add Document Content to Selected Articles	
	<b>+</b>	
	uuuuu	





## PDF settings

Adobe Interactive & Print settings



### Adobe Interactive PDF settings

General

Compression Advanced Security

### Select:

- Create Tagged PDF
- Use Structure for Tab Order

Export to Interactive PDF	
General	
Pages ● All ○ Range: 1   Export As ● Pages ○ Spreads	
Create Separate PDF Files Suffix:	
Viewing         View:       Fit Height         Layout:       Single Page Continuous         Presentation:       Open in Full Screen Mode         Flip Pages Every:       5         seconds         View After Exporting         Page Transitions:       From Document	
Options   Forms and Media:   Include All   Embed Page Thumbnails   Create Acrobat Layers   Include Hidden Spreads   Options Options Appearance Only Create Tagged PDF Use Structure for Tab Order	
Cancel	$\mathbf{)}$



### Interactive PDF settings

Genera

Compr Advanc Securit

### Select:

- Document Title
- The appropriate Language for the file

	Export to Interactive PDF
l ession ed y	Advanced   Accessibility Options   Display Title:   Document Title   Language:   English:   Canadian   Description Hover over an option to view description.
	Cancel Export



# Print PDF settings

### Create PDF presets

 Can be print quality or based on Smallest file size

			Exp	ort Adobe	PDF				
dobe PDF Preset:	[Smalle	st File Size] (modified)						~	
Standard: None		~		Co	Compatibility: Acrobat 6 (PDF 1.5)		~		
eneral		General							
ompression arks and Bleeds utput dvanced			document Internet.	s best suite	ed for on F docum	-screen d	se settings to o isplay, e-mail, be opened with	and the	
ecurity		Pages				Viewing			
ımmary			Range: 1		~	View:	Fit Visible	~	
		Export As	• Page	s 🔿 Spre	eads	Layout:	Single Page C	ontinu	~
		🗌 Create Se	eparate PD	F Files		🗌 Open	in Full Screen	Mode	
		Suffix:				🔽 View	PDF after Expe	orting	
		Options							
		Embed Pa	age Thum	onails		🗹 Crea	ate Tagged PDI	F	
		🗹 Optimize	for Fast V	Veb View		🗌 Crea	ate Acrobat Lay	yers	
		Export Layer	rs: Visible	& Printable	e Layers	~			
		🗌 Include H	lidden Spr	eads					
		Include							
		Bookmarks 🗌 N		🗌 Non	on-Printing Objects				
		Hyperlinks		Visible Guides and Grids					
				pearance	ance ~				
Save Preset)							Cancel		ort



# Print PDF settings

### Include:

- Create Tagged PDF
- Bookmarks
- Hyperlinks

Export Adobe PDF						
Adobe PDF Preset:	et: [Smallest File Size] (modif					~
Standard:	None	~	с	ompatibility: Ac	robat 6 (PDF 1.5)	~
General	General					
Compression Marks and Bleeds Dutput Advanced	Descriptio	documents l Internet. Cr	pest suited for o	n-screen display,	ings to create Adobe , e-mail, and the ned with Acrobat and	- 8
Security	- Pages -			Viewing		
Summary	O All	○ Range: 1	~	View: Fit Vis	sible 🗸	
	Export A	s O Pages	$\bigcirc$ Spreads	Layout: Single	e Page Continu 👻	
	🗌 Creat	e Separate PDF	Files	🗌 Open in Ful	ll Screen Mode	
	Suffix:			View PDF at	fter Exporting	
		d Page Thumbn nize for Fast We		Create Tag	gged PDF	
	Export L	ayers: Visible &	Printable Layers	~		
		de Hidden Sprea				
	Include ☑ Book ☑ Hype Interacti	rlinks		n-Printing Object ible Guides and ( e ~		
Save Preset					ancel Expor	t



Print PDF settings

### Include:

- Document Title
- The appropriate Language for the file

			Export Adobe PD	F		
Adobe PDF Preset:	[Smalle	st File Size] (modif	ied)			~
Standard:	None	~		Compatibility:	Acrobat 6 (PDF 1.5)	~
General		Advanced				
Compression		Fonts				
Marks and Bleeds		Subs	et fonts when perce	ent of characters	used is less than: 100%	
Output Advanced		i All fonts with	appropriate embeddin	ig bits will be embed	lded.	
Security		OPI				
Summary			Save Prese	et		
Sa	ve Pre	Description	A EN glish: Canadian ption to view descr	iption.	OK Cancel	
Save Preset				(	Cancel Export	$\supset$





# Use Word document import feature

Directly into your InDesign template files

AutoSave 🔵 📭 🏠 🕆 🖒 🛱 🗁 🗸 🛱 🚥 🤷 Sample Content – Accessibility and UX\_I 😐 😐 🗛 AutoSave 🔵 📭 - 🎧 🖹 岁 ~ Ċ 🖨 … 🖻 Sample Content – Accessibility and UX\_B... — Saved to my Mac ~ References Mailings  $\gg$   $\bigcirc$  Tell me Design Layout A Home Insert Draw Design Lavout References Mailings  $\gg$   $\bigcirc$  Tell me Share **Editing** 

Quicksand

#### The importance of digital document accessibility

A^ A`

**B**  $I \cup \mathbf{v} \Rightarrow \mathbf{x}, \mathbf{x}^2 \land \mathbf{A} \mathbf{v} \land \mathbf{A} \Rightarrow \mathbf{A} \Rightarrow$ 

Aa 🗸 🗛 abc A

Paragraph

Ų

Dictate

Styles

Current

Norma

Nev

Apply a

Clear

Norm

No Sp

Hea

Hea

Head

Head

Title

Sub

Subtle

Emph

Intens

Stron

List: R

10

B

E Focus

Sho Sho Paste

~

Styles

Digital document accessibility is crucial for ensuring that all users, regardless of their physical or cognitive abilities, can access and interact with digital content.

#### Creating accessible documents

Accessibility involves designing documents so they can be used by people with a variety of disabilities, such as vision impairment, hearing loss, or mobility challenges. This includes providing alternative text for images, ensuring screen reader compatibility, and using high contrast colors and readable fonts. Making digital documents accessible not only aligns with ethical standards and legal requirements, such as the Accessibility for Ontarians with Disabilities Act (AODA), but also promotes inclusivity and equal access to information.

#### Key accessibility aspects

Home

Paste

Insert

Draw

Arial

Digital document accessibility is the use of semantic HTML and proper structuring. This involves using headings, lists, and other HTML elements appropriately to give documents a clear, logical structure that assistive technologies, like screen readers, can interpret correctly.

- Proper structuring helps users navigate documents more easily, improving their overall experience.
- A screen reader user relies on headings to understand the document's hierarchy and guickly find relevant sections.

#### Impacts of inaccessibility

Accessibility in digital documents also has significant legal implications

- · Various laws and regulations worldwide mandate digital accessibility, such as the Web Content Accessibility Guidelines (WCAG) developed by the World Wide Web Consortium (W3C).
- Non-compliance can result in legal actions, financial penalties, and damage to an organization's reputation.
- Ensuring digital documents are accessible is not just a matter of social responsibility but also a legal obligation.
- Organizations that prioritize accessibility can avoid potential legal issues and demonstrate their commitment to inclusivity and diversity.

User experience in digital documents goes hand-in-hand with accessibility.

#### The importance of digital document accessibility

A^ A

**B**  $I \cup \checkmark \Rightarrow x, x^2 \land A \checkmark A (P)$ 

×

Digital document accessibility is crucial for ensuring that all users. regardless of their physical or cognitive abilities, can access and interact with digital content.

Aa 🗸 🗛 abc A

=.

Paragraph

E Focus

Styles

#### Creating accessible documents

v 10.5

Accessibility involves designing documents so they can be used by people with a variety of disabilities, such as vision impairment, hearing loss, or mobility challenges. This includes providing alternative text for images, ensuring screen reader compatibility, and using high contrast colors and readable fonts. Making digital documents accessible not only aligns with ethical standards and legal requirements, such as the Accessibility for Ontarians with Disabilities Act (AODA), but also promotes inclusivity and equal access to information.

#### Key accessibility aspects

Digital document accessibility is the use of semantic HTML and proper structuring. This involves using headings, lists, and other HTML elements appropriately to give documents a clear, logical structure that assistive technologies, like screen readers, can interpret correctly.

- Proper structuring helps users navigate documents more easily, improving their overall experience.
- A screen reader user relies on headings to understand the document's hierarchy and auicklu find relevant sections.

#### Impacts of inaccessibility

Accessibility in digital documents also has significant legal implications.

- Various laws and regulations worldwide mandate digital accessibility, such as the Web Content Accessibility Guidelines (WCAG) developed by the World Wide Web Consortium (W3C).
- Non-compliance can result in legal actions, financial penalties, and damage to an organization's reputation.
- Ensuring digital documents are accessible is not just a matter of social responsibility but also a legal obligation.
- Organizations that prioritize accessibility can avoid potential legal issues and demonstrate their commitment to inclusivity and diversity.

User experience in digital documents goes hand-in-hand with accessibility.

	U Dictate	Editor	Create PDF Request and share link Signatures
S	tyles		8
С	urrent st	yle:	
	• List F	Paragraph	٩
	New S	tyle	Select All
Ap	oply a st	yle:	
	Clear For	matting	
	Call-c	out	
	Intro C	ору	
	Normal		
	No Spaci	ing	
	Head	ing 1	
	Headi	ng 2	
	Headir	ng 3	
	Heading	g 4	
	Title		
	Subtitl	е	
	Subtle Er	mphasis	
	Emphasi	s	
	Intense E	Emphasis	
	Strong		
	Show s	mmended styles guid lirect forn	des natting guides

**Comments** 

100%

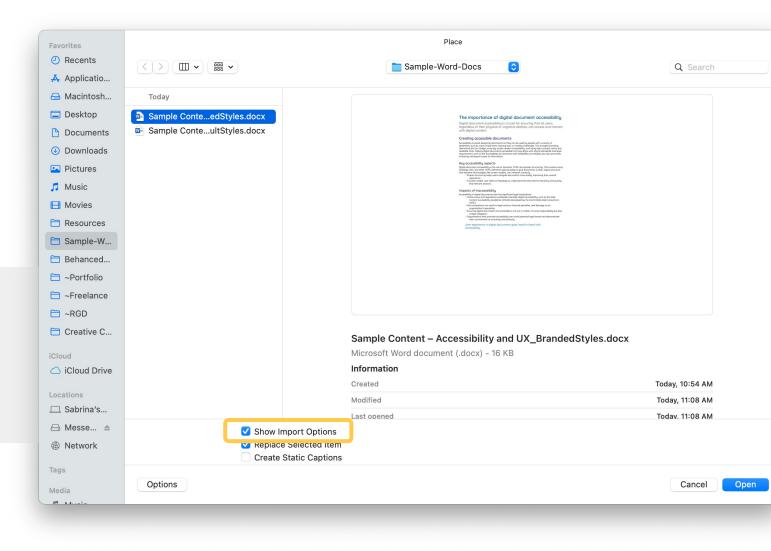
- + -

П× Page 1 of 1 279 words English (United States) Page 1 of 1 273 words

English (United States)



**How to:** go to *File > Place* ensure *Show Import Options* in checked at the bottom of the pop-up window



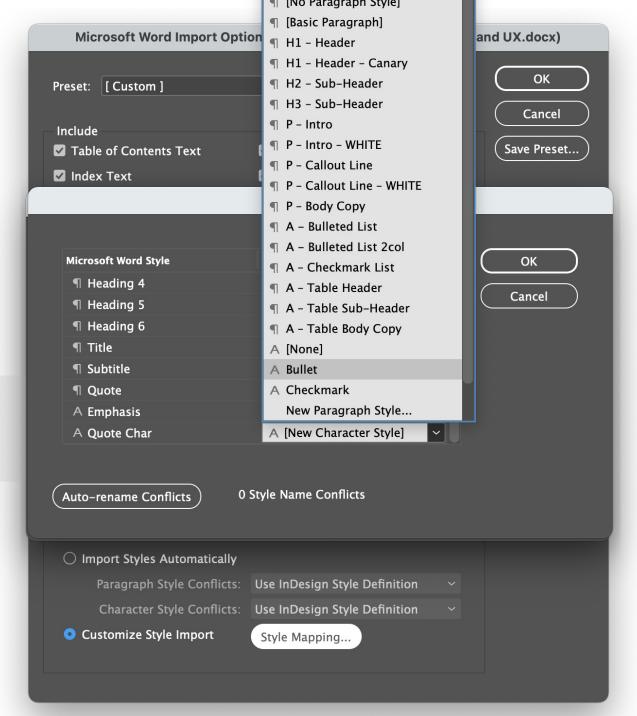


**How to:** Select *Customize Style Import* > Style Mapping...

Microsoft Word Import O	ptions (Sample Content – Accessibili	ity and UX.docx)
Preset: [ Custom ]	∽ Set as Default	ОК
Include		Cancel
Table of Contents Text	Footnotes	Save Preset
🗹 Index Text	Endnotes	
	🗌 Import as Static Text	
Options		
Use Typographer's Quotes		
Formatting <ul> <li>Remove Styles and Formatti</li> </ul>	ng from Toys and Tables	
Preserve Local Overrides	ng from rext and rables	
Convert Tables To: Unformat	thad Tables	
• Preserve Styles and Formatt	ing from Text and Tables	
Manual Page Breaks: Preserv	e Page Breaks ~	
Import Inline Graphics	Track Changes	
Import Unused Styles	Convert Bullets & Numbers to Text	
Style Name Conflicts: 0 C	onflicts	
O Import Styles Automatical	ly	
Paragraph Style Conflict	ts: Use InDesign Style Definition $\sim$	
Character Style Conflict	ts: Use InDesign Style Definition 🛛 🗸	
Customize Style Import	Style Mapping	



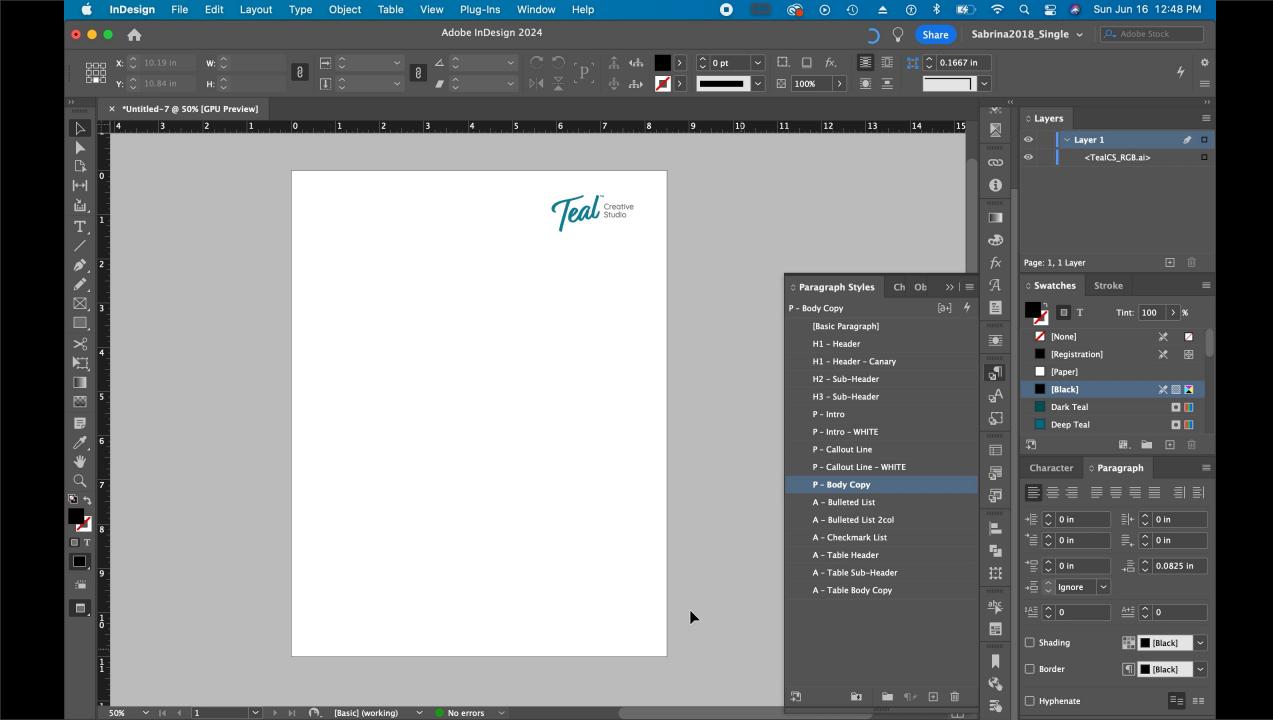
**How to:** Select *Customize Style Import* > Style Mapping...





- Save Preset for future imports
  - Can be set as Default
- Needs to manually setup per computer
  - Share a sample file with every style included









## Key take-aways







The time spent up front building out robust templates, brand repositories & workflows will pay for itself 10-fold in the time and effort saved per project allowing more time for creativity.





### Setting best practises for your company by establishing robust processes allows designers to free up head space and time

spent questioning what they need to do next.





Allowing creatives to do what they do best. Be creative!





## Available resources

Take-away resources you can utilize



### 





### 🕑 Resource package download











### or visit TealCS.com



## Thank you!

Sabrina@tealcs.com
 ↓ tealcreativestudio.com
 in f @tealcreativestudio