Web Content Accessibility Guidelines 2.0 Checklist

Principle 1: Perceivable – information and user interface components must be presentable to users in ways they can perceive.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments (mandatory)
Guideline 1.1 Text Alternatives: Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language.				
1.1.1	Non-text Content: All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except for the situations listed below (Level A). • Controls, Input: If non-text content is a control or accepts user input, then it has a name that describes its purpose. (Refer to Guideline 4.1 for additional requirements for controls and content that accepts user input.) • Time-Based Media: If non-text content is time-based media, then text alternatives at least provide descriptive identification of the non-text content. (Refer to Guideline 1.2 for the additional requirements for media.) • Test: If non-text content is a test or exercise that would be invalid if presented in text, then text alternatives at least provide descriptive identification of the non-text content. • Sensory: If non-text content is primarily intended to create a specific sensory experience, then text alternatives at least provide descriptive identification of the non-text content. • CAPTCHA: If the purpose of non-text content is to confirm that content is being accessed by a person rather than a computer, then text alternatives that identify and describe the purpose of the non-text content are provided, and alternative forms of CAPTCHA using output modes for different types of sensory perception are provided to accommodate different disabilities. • Decorative, Formatting, Invisible: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology.	Yes	No	Synchronized transcripts are available for approximately 52,000 of 149,000 videos available on our platform (Jun/2017). About 64,000 have abstracts, which might fulfill the requirement to "at least provide descriptive identification of the non-text content." The availability of searchable text to accompany image material is harder to calculate, but it does not approach "all".
Guideline 1.2 Time-based Media: Provide alternatives for time-based media.				

1.2.1	Audio-only and Video-only (Prerecorded): For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly labeled as such (Level A): • Prerecorded Audio-only: An alternative for time-based media is provided that presents equivalent information for prerecorded audio-only content. • Prerecorded Video-only: Either an alternative for time-based media or an audio track is provided that presents equivalent information for prerecorded video-only content.	Yes	No	We offer waveforms for audio-only content; this is not an equivalent representation. For prerecorded video see 1.1.1.
1.2.2	Captions (Prerecorded): Captions are provided for all prerecorded audio content in synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)	Yes	No	Our transcription content does not meet standards for captioning defined in WCAG2.0
1.2.3	Audio Description or Media Alternative (Prerecorded): An alternative for time-based media or audio description of the prerecorded video content is provided for synchronized media, except when the media is a media alternative for text and is clearly labeled as such. (Level A)	Yes	No	No audio descriptions are provided for time based media.
1.2.4	Captions (Live): Captions are provided for all live audio content in synchronized media. (Level AA)	No		Our platform does not include live audio.
1.2.5	Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media. (Level AA)	Yes	No	See 1.2.3
1.2.6	Sign Language (Prerecorded): Sign language interpretation is provided for all prerecorded audio content in synchronized media. (Level AAA)	Yes	No	Sign language interpretation is not provided.
1.2.7	Extended Audio Description (Prerecorded): Where pauses in foreground audio are insufficient to allow audio descriptions to convey the sense of the video, extended audio description is provided for all prerecorded video content in synchronized media. (Level AAA)	Yes	No	No audio descriptions are provided for time-based media.
1.2.8	Media Alternative (Prerecorded): An alternative for time-based media is provided for all prerecorded synchronized media and for all prerecorded video-only media. (Level AAA)	Yes	No	See 1.1.1. Synchronized transcripts are provided in many (but not all) videos.
1.2.9	Audio-only (Live): An alternative for time-based media that presents equivalent information for live audio-only content is provided. (Level AAA)	No		Our platform does not include live audio.

Guideline 1.3 Adaptable: Create content that can be presented in different ways (for example simpler layout) without losing information or structure.

1.3.1	Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text. (Level A)	Yes	Yes	Proper HTML markup is used to convey the information present in the application. For example Headings, Landmarks, Paragraph etc. are properly tagged. However few trivial issues are observed for screen reader user. For e.g. NVDA reads all links in one go using arrow keys.
1.3.2	Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. (Level A)	Yes	Yes	Reading order is correct in application for both assistive technology and normal users.
1.3.3	Sensory Characteristics: Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound. (Level A)	No		No information on application is based on sensory characteristics.
Guideline 1.4 Distinguishable: Make it easier for users to see and hear content including separating foreground from background.				
1.4.1	Use of Color: Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. (Level A)	Yes	Yes	Color is not the only visual means of conveying information
1.4.2	Audio Control: If any audio on a Web page plays automatically for more than 3 seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level. (Level A)	Yes	Yes	Player controls are available through keyboard navigation or screen reader and user can easily pause and stop the audio.

1.4.3	Contrast (Minimum): The visual presentation of text and images of text has a contrast ratio of at least 4.5:1, except for the following: (Level AA) • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 3:1; • Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. • Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement.	Yes	No	Application has sufficient color contrast 4.5:1 for most of the areas. However, some elements in application does not meet this criteria. For e.g. Sign in Link, Content under the detail tab, Video player controls icons etc.
1.4.4	Resize text: Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality. (Level AA)	Yes	Yes	We did not encounter any issue on zooming the page up to 200 percent.
1.4.5	Images of Text: If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following: (Level AA) • Customizable: The image of text can be visually customized to the user's requirements; • Essential: A particular presentation of text is essential to the information being conveyed.	Yes	Yes	Our presentation of Images of Text (for example when presenting archive documents or musical scores) meets the "Essential" exception.

1.4.6	Contrast (Enhanced): The visual presentation of text and images of text has a contrast ratio of at least 7:1, except for the following: (Level AAA) • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 4.5:1; • Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement. • Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement.	Yes	No	We did not independently evaluate AAA-level requirements. However, text (as text) has a contrast ratio of at least 7.3. Images of Text will have a grey scale that depends on the contrast of the text in the original document that was scanned.
1.4.7	Low or No Background Audio: For prerecorded audio-only content that (1) contains primarily speech in the foreground, (2) is not an audio CAPTCHA or audio logo, and (3) is not vocalization intended to be primarily musical expression such as singing or rapping, at least one of the following is true: (Level AAA) • No Background: The audio does not contain background sounds. • Turn Off: The background sounds can be turned off. • 20 dB: The background sounds are at least 20 decibels lower than the foreground speech content, with the exception of occasional sounds that last for only one or two seconds.	Yes	No	We did not independently evaluate AAA-level requirements. However it's probably incidentally true for almost all our audio content.
1.4.8	Visual Presentation: For the visual presentation of blocks of text, a mechanism is available to achieve the following: (Level AAA) • Foreground and background colors can be selected by the user. • Width is no more than 80 characters or glyphs (40 if CJK). • Text is not justified (aligned to both the left and the right margins). • Line spacing (leading) is at least space-and-a-half within paragraphs, and paragraph spacing is at least 1.5 times larger than the line spacing. • Text can be resized without assistive technology up to 200 percent in a way that does not require the user to scroll horizontally to read a line of text on a full-screen window.	Yes	No	We did not independently evaluate AAA-level requirements. However there are examples of text wider than 80 characters.

1.4.9	Images of Text (No Exception): Images of text are only used for pure decoration or where a particular presentation of text is essential to the information being conveyed. (Level AAA)	Yes	No	We did not independently evaluate AAA-level requirements. However there may be examples of images of text used as decoration.

Principle 2: Operable - User interface components and navigation must be operable.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments
Guideline 2.1 Keyboard Accessible: Make all functionality available from a keyboard.				
2.1.1	Keyboard: All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes, except where the underlying function requires input that depends on the path of the user's movement and not just the endpoints. (Level A)	Yes	No	Users are able to access most of the interactive elements in application using keyboard. However, some of the elements are inaccessible using keyboard. For e.g. User cannot select language. Keyboard user is unable to 'Add to/create playlist' from the 'Playlist' tab.
2.1.2	No Keyboard Trap: If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away. (Level A)	Yes	Yes	Keyboard function does not trap anywhere in application.

2.1.3	Keyboard (No Exception): All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes. (Level AAA)	Yes	Yes	We did not independently evaluate AAA-level requirements. However our platform does not impose specific timings for keystrokes.

Guideline 2.2 Enough Time: Provide users enough time to read and use content.				
2.2.1	Timing Adjustable: For each time limit that is set by the content, at least one of the following is true: (Level A) • Turn off: The user is allowed to turn off the time limit before encountering it; or • Adjust: The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or • Extend: The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times; or • Real-time Exception: The time limit is a required part of a real-time event (for example, an auction), and no alternative to the time limit is possible; or • Essential Exception: The time limit is essential and extending it would invalidate the activity; or • 20 Hour Exception: The time limit is longer than 20 hours.	No		Application does not have any time based activity or functionality that needs to be completed within a certain limit of time or require a user response in a specified time.
2.2.2	Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true: (Level A) • Moving, blinking, scrolling: For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is essential; and • Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential.	Yes	No	Dynamic carousels are used in application to display the information. However no functionality is available to Pause/Stop the automatically moving slides.
2.2.3	No Timing: Timing is not an essential part of the event or activity presented by the content, except for non-interactive synchronized media and real-time events. (Level AAA)	No		Timing is not part of any activity on the site, although it may be in future video quizzing activities

2.2.4	Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency. (Level AAA)	Yes	Yes	We did not independently evaluate AAA-level requirements. However our platform does not introduce interruptions that require a response.
2.2.5	Re-authenticating: When an authenticated session expires, the user can continue the activity without loss of data after re-authenticating. (Level AAA)	Yes	Yes	We did not independently evaluate AAA-level requirements. However session expiry is very long (28 days) essentially eliminating the chance that data will be lost due to expiration.
Guideline 2.3 Seizures: Do not design content in a way that is known to cause seizures.				
2.3.1	Three Flashes or Below Threshold: Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds. (Level A)	No		Application does not contain any flashing object on screens. However, there are number of videos available in the application which are not reviewed for flashing.
2.3.2	Three Flashes: Web pages do not contain anything that flashes more than three times in any one second period. (Level AAA)	No		See above
Guideline 2.4 Navigable: Provide ways to help users navigate, find content, and determine where they are.				

2.4.1	Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages. (Level A)	Yes	Yes	Application provides 'Skip to main content' link at the top of the each page. Heading is also available at the beginning of main content.
2.4.2	Page Titled: Web pages have titles that describe topic or purpose. (Level A)	Yes	Yes	Meaning full titles are available for all pages which describes the purpose.
2.4.3	Focus Order: If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability. (Level A)	Yes	No	There are few instances in the application where focus order is incorrect. For e.g. Focus of screen reader does not go to 'Terms and condition' automatically when user clicks purchase button. Focus shifts to other location on selecting radio buttons on citation management page.

2.4.4	Link Purpose (In Context): The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general. (Level A)	Yes	No	We observed few links with incorrect link text. On playlist editing page screen reader announces inappropriate link text for 'Add a web link' link Screen reader reads inappropriate linked text for 'close' and 'Copy playlist' links.
2.4.5	Multiple Ways: More than one way is available to locate a Web page within a set of Web pages except where the Web Page is the result of, or a step in, a process. (Level AA)	Yes	Yes	Our site offers many searching, browsing, and discovery options
2.4.6	Headings and Labels: Headings and labels describe topic or purpose. (Level AA)	Yes	Yes	Descriptive headings are provided in the application.
2.4.7	Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. (Level AA)	Yes	No	Tab focus is not visible when keyboard user focuses on a particular tab of the tab list on Citation management page. On home page Tab focus is not visible on the graphic links given in the carousel section.

2.4.8	Location: Information about the user's location within a set of Web pages is available. (Level AAA)	Yes	Yes?	Breadcrumbs are provided on entity pages but may not be sufficient to meet this requirement
2.4.9	Link Purpose (Link Only): A mechanism is available to allow the purpose of each link to be identified from link text alone, except where the purpose of the link would be ambiguous to users in general. (Level AAA)	Yes	Yes?	Link text/alt-text may not be specific enough to meet this criterion when many links are available on a page like a search results page

Standard	Description	Apply Yes/No	Meets Yes/No	Comments
2.4.10	Section Headings: Section headings are used to organize the content. (Level AAA)	Yes	No	We did not independently evaluate level AAA requirements. Much of the text is organized using section headings. We can't guarantee this kind of organization in all text content we host, and WCAG clarifies "[t]his provision is included at Level AAA because it cannot be applied to all types of content and it may not always be possible to insert headings. For example, when posting a pre-existing document to the Web, headings that an author did not include in the original document cannot be inserted. "

Principle 3: Understandable - Information and the operation of user interface must be understandable.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments

Guideline 3.1 Readable: Make text content readable and understandable.				
3.1.1	Language of Page: The default human language of each Web page can be programmatically determined. (Level A)	Yes	Yes	English Language is specified in the application using HTML lang attribute.
3.1.2	Language of Parts: The human language of each passage or phrase in the content can be programmatically determined except for proper names, technical terms, words of indeterminate language, and words or phrases that have become part of the vernacular of the immediately surrounding text. (Level AA)	Yes	Yes	We have verified the application on default language i.e. English and did not observed the change of language in words or phrase on any page.
3.1.3	Unusual Words: A mechanism is available for identifying specific definitions of words or phrases used in an unusual or restricted way, including idioms and jargon. (Level AAA)	Yes	No	We do not offer a glossary, although some text material on our site may contain one that applies to its content
3.1.4	Abbreviations: A mechanism for identifying the expanded form or meaning of abbreviations is available. (Level AAA)	Yes	No	We cannot guarantee that this is available for all material on our site, although many text resources and much of our indexing supports this
3.1.5	Reading Level: When text requires reading ability more advanced than the lower secondary education level after removal of proper names and titles, supplemental content, or a version that does not require reading ability more advanced than the lower secondary education level, is available. (Level AAA)	Yes	No	Reading level is not identified in most of our content.

3.1.6	Pronunciation: A mechanism is available for identifying specific pronunciation of words where meaning of the words, in context, is ambiguous without knowing the pronunciation. (Level AAA)	Yes	No	No resources for this are available at a site-wide level, although glossaries including pronunciation guides may be available in some text resources
Guideline 3.2 Predictable: Make Web pages appear and operate in predictable ways.				
3.2.1	On Focus: When any component receives focus, it does not initiate a change of context. (Level A)	Yes	Yes	We did not observed any instance where change of context occurs automatically when any active component receives focus.
3.2.2	On Input: Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component. (Level A)	Yes	Yes	We did not observed any instance where change of context occurs automatically on providing any input.
3.2.3	Consistent Navigation: Navigational mechanisms that are repeated on multiple Web pages within a set of Web pages occur in the same relative order each time they are repeated, unless a change is initiated by the user. (Level AA)	Yes	Yes	Navigation structure of pages are consistent throughout the application and user is able to access features in the same relative order.

3.2.4	Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently. (Level AA)	Yes	Yes	Features which are repeating and have same functionality are identified by user in a same way on each location throughout the application.
3.2.5	Change on Request: Changes of context are initiated only by user request or a mechanism is available to turn off such changes. (Level AAA)	Yes	No	We did not formerly evaluate level AAA requirements. One example of changes of context not initiated by the user are rotating carousel images on several collection landing pages, although operating these are not essential to a successful search session.
Guideline 3.3 Input Assistance: Help users avoid and correct mistakes.				

3.3.1	Error Identification: If an input error is automatically detected, the item that is in error is identified and the error is described to the user in text. (Level A)	Yes	No	Screen reader does not read the error message automatically on checkout page while filling up the billing and credit card details. On Clip Editor Dialog error validation is shown via color markup which is inaccessible to screen reader user.
3.3.2	Labels or Instructions: Labels or instructions are provided when content requires user input. (Level A)	Yes	No	Labels and instructions are missing for some of the form fields in the application. For e.g. On advance Search page no instructions (regarding the date format) are provided in all the date related text fields. Screen reader is not reading the labeling of 'Clip Visibility' combo box using tab.
3.3.3	Error Suggestion: If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content. (Level AA)	No		We do not offer suggestions for correction

3.3.4	Error Prevention (Legal, Financial, Data): For Web pages that cause legal commitments or financial transactions for the user to occur, that modify or delete user-controllable data in data storage systems, or that submit user test responses, at least one of the following is true: (Level AA) • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.	No		Application does not contain any such screen which requires review and modification of any data before the final submitting. Error identification is enough to understand any mistake on forms.
3.3.5	Help: Context-sensitive help is available. (Level AAA)	Yes	Yes	We did not independently evaluate level AAA requirements; Many tooltips are available. Help links are available on every page although these are not context-sensitive.
3.3.6	Error Prevention (All): For Web pages that require the user to submit information, at least one of the following is true: (Level AAA) • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.	Yes	Yes	We did not independently evaluate level AAA requirements, however all forms are reversible or confirmed.

Principle 4: Robust - Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

Standard	Description	Apply Yes/No	Meets Yes/No	Comments
Guideline 4.1 Compatible: Maximize compatibility with current and future user agents, including assistive technologies.				

4.1.1	Parsing: In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features. (Level A)	Yes	Yes	The site itself meets this requirement.
4.1.2	Name, Role, Value: For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies. (Level A)	Yes	No	There are few elements in application which have incorrect label and incorrect role. For e.g. ole link is missing for the element "PRESENTING CONDITION" NVDA reads Close button as 'Times clickable'. Screen reader user is not notified while search is in progress. Change in state for 'Add/Remove track' not being notified

Notes on the information provided in the WCAG checklist:

All Level A and AA requirements were independently evaluated by a third party contractor, QA Infotech, who has expertise and familiarity to our platform and the WCAG requirements. The statements in the comments column for level A and AA checkpoints are their expression of conformance. This evaluation was conducted in the Spring of 2017 and was relevant to the then current state of our main platform, search.alexanderstreet.com.

For level AAA checkpoints we have made no formal independent evaluation but have endeavored to indicate conformance levels to the best of our knowledge.

A few collections in Alexander Street's portfolio are accessed via legacy platforms and the statements in this WCAG do not apply to those platforms.