High-level accessibility review – BTAA
(DocuSeek2)

Primary Point of Contact
Helen Burge
Senior Accessibility Consultant

Deque Systems, Inc.
Web: www.deque.com
Email: helen.burge@deque.com

January 2, 2020

deque

High-level accessibility review – DocuSeek2

Contents

DocuSeek2

Summary (top 3 problems for DocuSeek2)

This assessment covers portions of the DocuSeek2 application. The assessment revealed some problems with screen reader compatibility, resulting in screen reader users sometimes missing critical information needed to understand how to operate the features.

1. **Session timeouts –** there are no warnings when a session has a time out. The user is not informed it has happened or can extend the session unless they notice the header has the option to "Log In". People with disabilities such as blindness, low vision, mobility impairments, and cognitive limitations may require more time to read content or to perform functions such as filling out online forms. If a session has a time limit, it may be difficult or impossible for some users to perform the required action before a time limit occurs. People must have the ability to turn off or extend time limits while interacting with content. Giving people the ability to turn off or extend the time helps ensure that they can complete tasks.

2. **Keyboard Navigation –** the pages have items that cannot work using the keyboard alone. The focus might not be visible or the keyboard cannot focus items at all. Some people cannot use a mouse due to vision or motor disabilities. Content that can be operated with a mouse must also be made operable with keyboard. When content is operable through a keyboard, it becomes operable by a variety of assistive technologies such as speech input software, sip-and-puff software, on-screen keyboards, scanning software, and alternate keyboards.

3. **Link context –** links in the pages are often not using the context or allowing a user to work out the visual context when they use a screen reader especially when the visual text is hidden from assistive technology. When link text - along with its immediately surrounding content - does not completely describe the destination of a link, people who are blind, and people with mobility impairments, reading disabilities, and low vision may have more difficulty understanding the purpose of a link so they can decide whether they want to follow the link. In order to sufficiently describe a link's destination, the link text and its immediately surrounding content must provide a complete description of the destination. (Note: Whenever possible, provide link text that identifies the purpose of the link without needing to refer to surrounding content.) Meaningful link text helps people choose which links to follow without requiring complicated strategies to understand the page.

Accessibility findings

Project wide issues

The issues presented in this section were identified in multiple pages and are recorded here to avoid repetition. These are applicable to each screen. Due to particularities, similar issues are still reported on a page per page basis, where applicable.

Automated findings using Axe

Issues found through automated testing come from the Axe plugin, an open source accessibility testing tool that is available for Firefox and Chrome. Details here: https://www.deque.com/products/axe/.
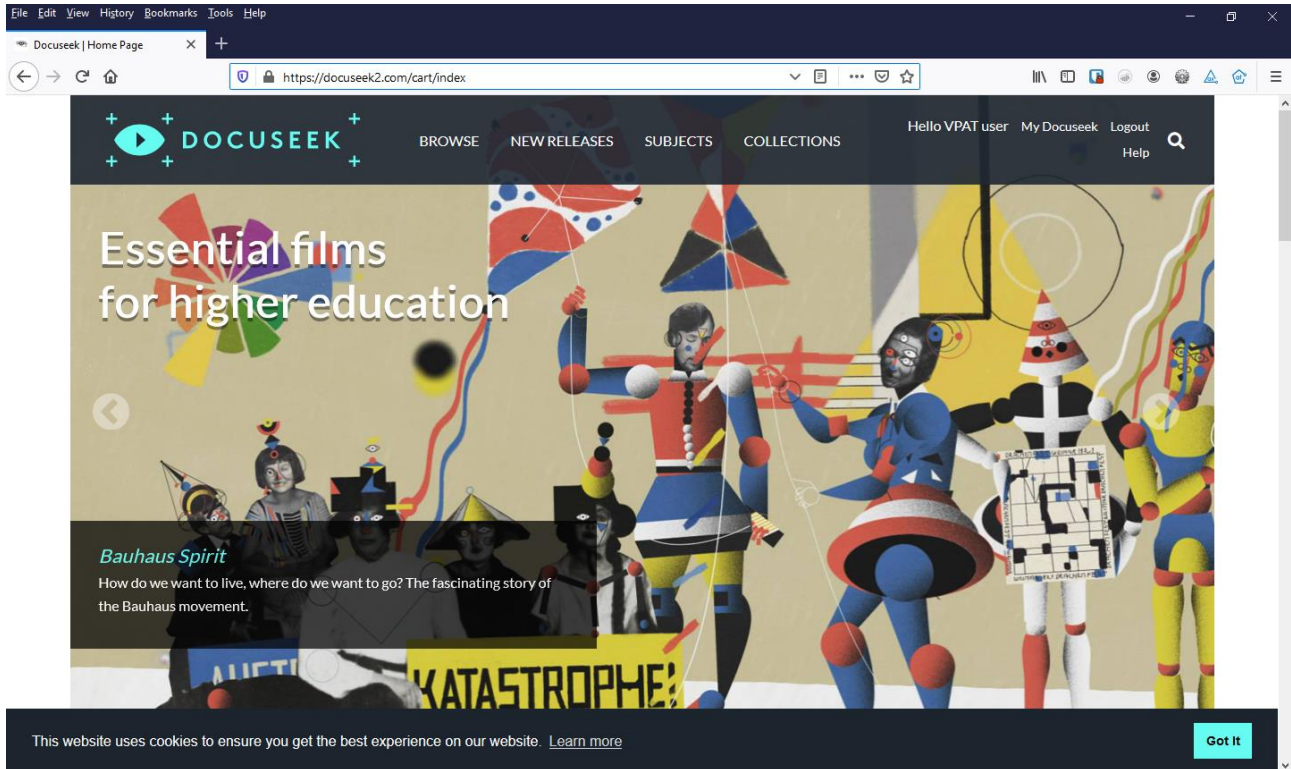
Additional manual findings using NVDA screen reader

1. **SC 2.2.1** – The session will time out without any warning and in less than 20 hours.

1. DocuSeek2 Landing Page

Source: https://docuseek2.com/cart/index

Test case: Test initial interface/landing page to ensure menus, search box, scrolling main section, images, icons, etc. are accessible.

Automated findings using Axe

1. **SC 4.1.2 -** ARIA hidden element must not contain focusable elements
2. **SC 4.1.1** - id attribute value must be unique

Additional manual findings using NVDA screen reader

1. **SC 2.4.7 –** Keyboard focus is not always visible on buttons like carousel navigation.

2. **SC 1.1.1** – Image buttons for the carousel are not given a valid text alternative.

3. **SC 1.4.3** – The text in the carousel is over images that can cause the contrast ratio to be below 3:1.

4. **SC 4.1.2** – The carousel does not allow the screen reader to know how many slides there are, or which page the focus is on.

2. Browse Options

Source: https://docuseek2.com/cart/index

Test case: From initial interface, test switching between the different browse options for end users (Browse, New Releases, Subjects, Collections), and features on each option for accessibility.
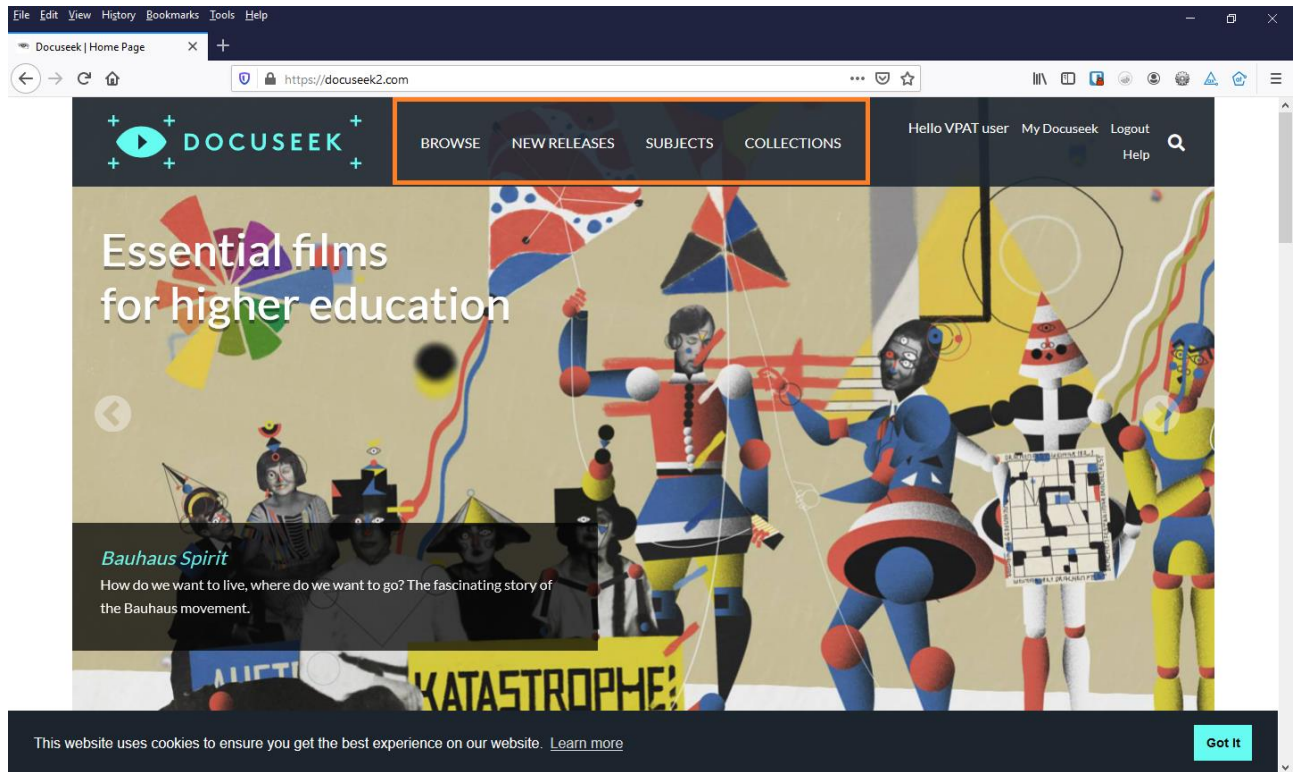
Additional manual findings using NVDA screen reader

1. **SC 1.4.1**– Link text is not a different color from surrounding text. With no other link indicator unless they are hovered, a user cannot see where links are in the page.

3. Search Music

Source: https://docuseek2.com/cart/index

Test case: Click on the magnifying glass/search icon (upper right) and search "music".
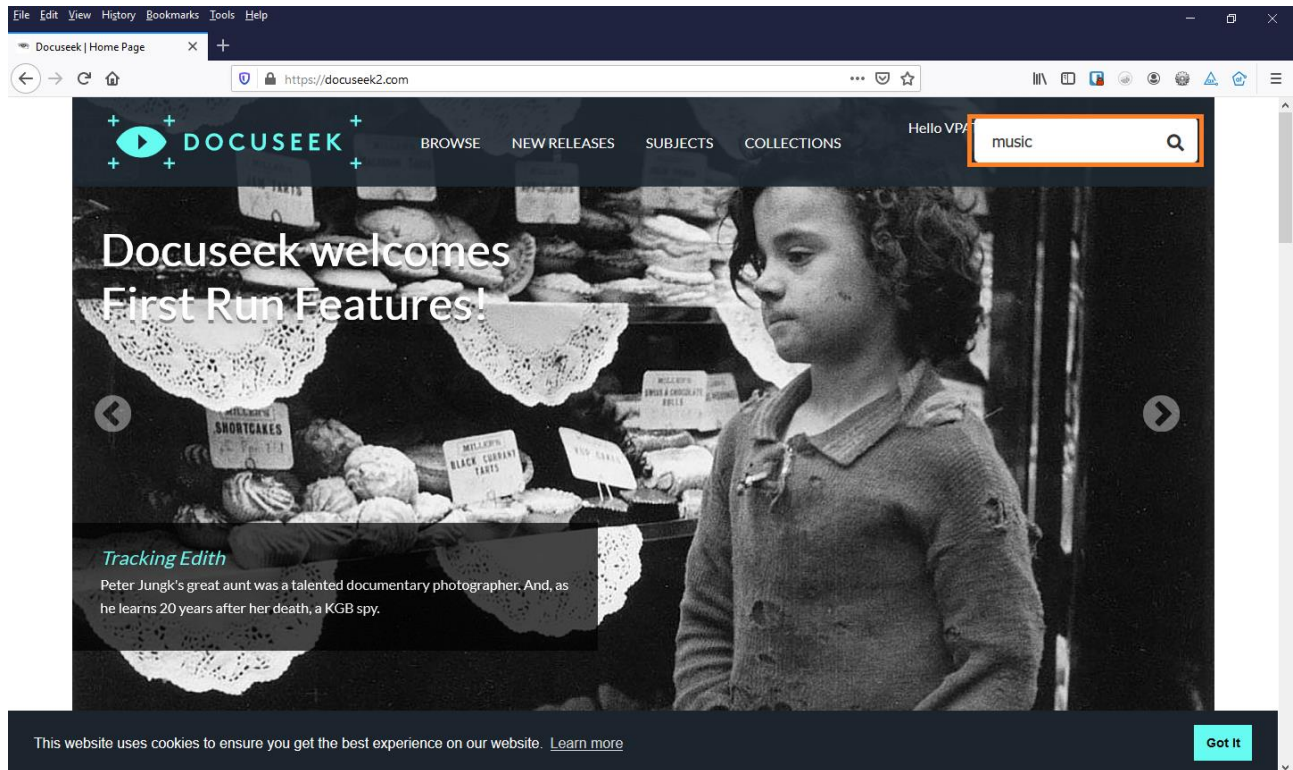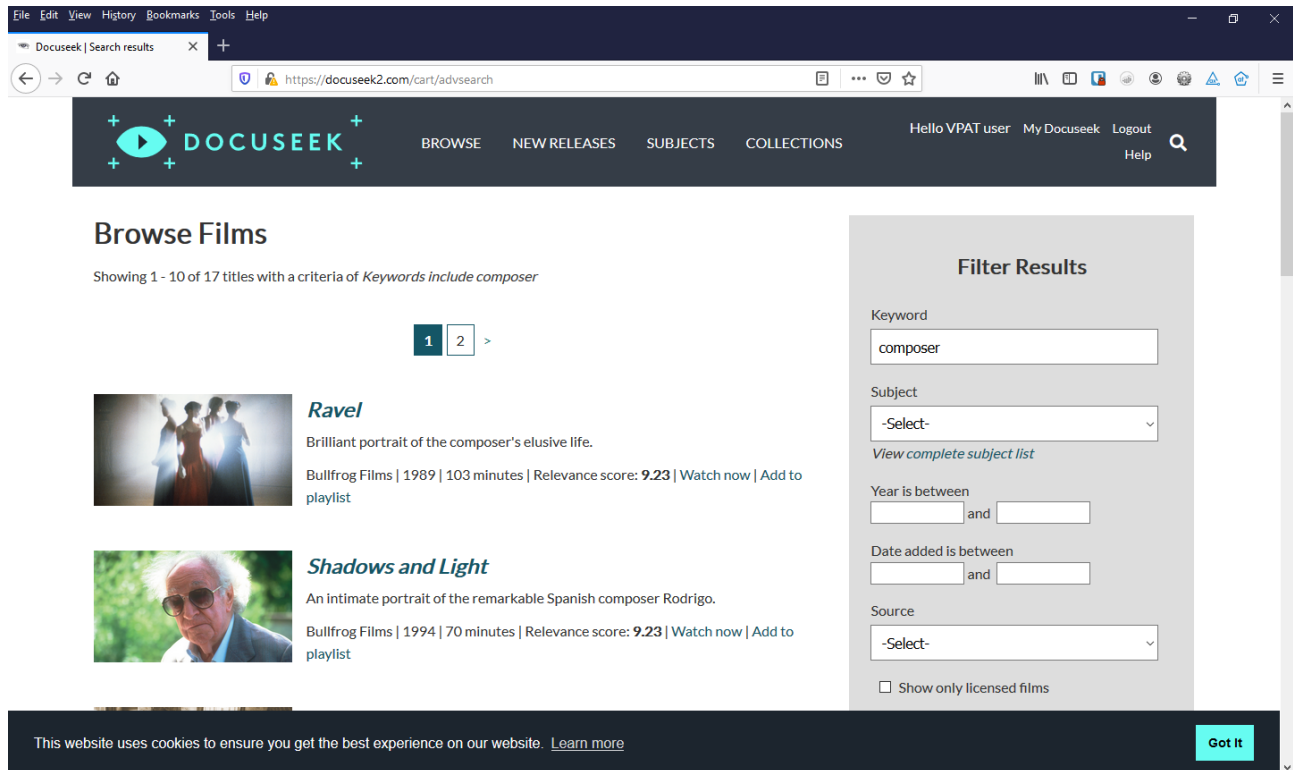
Additional manual findings using NVDA screen reader

1. **SC 2.4.7 –** Keyboard focus is not visible on the search button.

2. **SC 2.1.1** – The search button will only show the search field using the mouse.

3. **SC 2.1.1** – The user cannot submit a search with the mouse but using the keyboard only.

4. Search Results Page

Source: https://docuseek2.com/cart/advsearch/hf

Test case: Test results page, including Filter options. For Filter, do two filters: year range 1990-2000 and then new keyword "composer" (must remove word "music" first)

Automated findings using Axe

1. **SC 4.1.2 -** ARIA hidden element must not contain focusable elements (this relates to the visual link text for each result being heard as "blank" with a screen reader).
2. **SC 4.1.2** - ARIA attributes must conform to valid values
3. **SC 4.1.1** - IDs of active elements must be unique
4. **SC 1.3.1** - and <ol> must only directly contain <li>, <script> or <template> elements
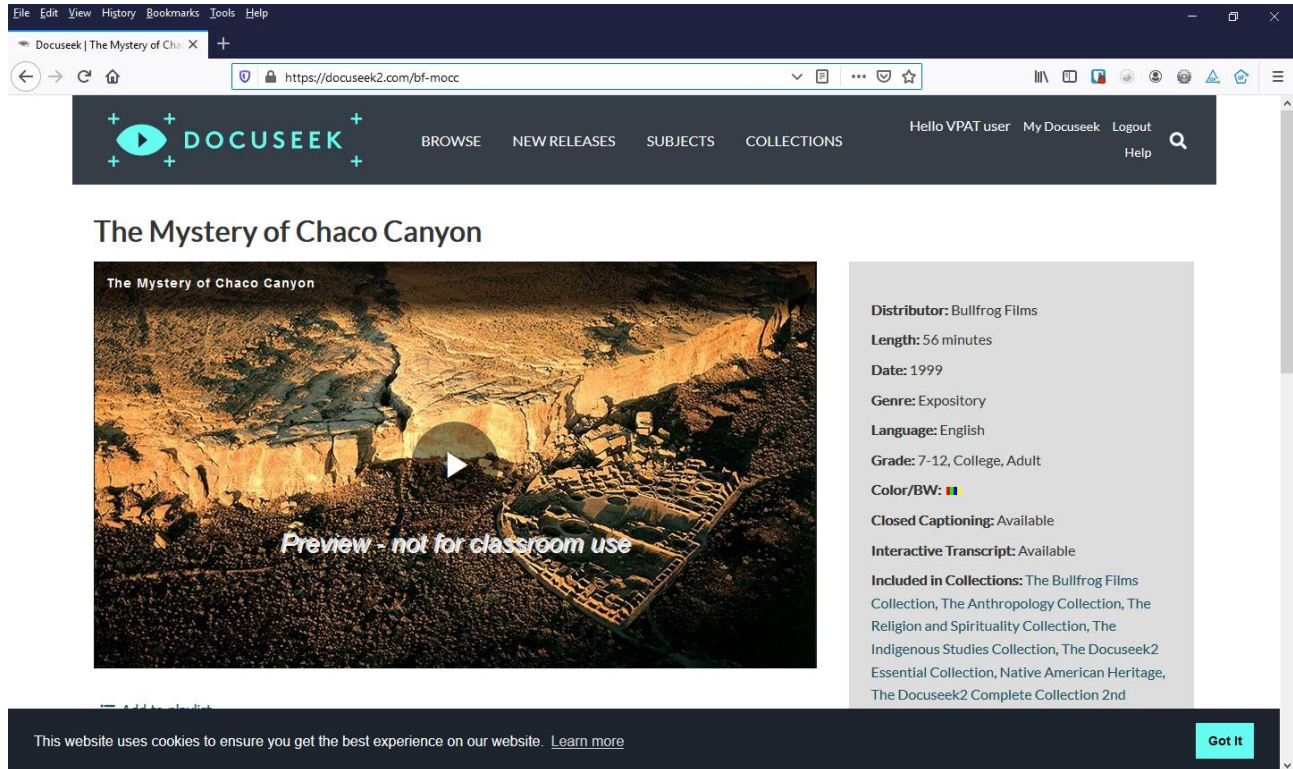
Additional manual findings using NVDA screen reader

1. **SC 1.3.1** – Grouped fields are not linked to the owning visual label.

2. **SC 2.4.4** – The page links do not have context that are given visually that they navigate the pages of results.

3. **SC 2.1.1** – Calendar controls cannot be focused with the keyboard.

5. The Mystery of Chaco Canyon Film

Source: https://docuseek2.com/bf-mocc

Test case: Click on Search, enter "Mystery of Chaco Canyon". Click on the title to enter film page. Play film, test for accessibility, including Interactive Transcript.

Additional manual findings using NVDA screen reader

1. **SC 1.4.4 –** The options for the video closed captions has the visual text cut off inside the video.

6. Pushin' Forward Film

Source: https://docuseek2.com/fn-forw

Test case: Click on Subjects, choose "Recreation and Sports". Go to page 4, watch the film "Pushin' Forward"

No additional issues were found

7. Advanced Search

Source: https://docuseek2.com/cart/advsearchoptions

Test case: Go to Browse, click on Advanced Search. In "Awards Contain" box, enter "Academy Award"; under "Grade Level", choose "Adult", click on Find Titles

Automated findings using Axe

1. **SC 4.1.2 -** ARIA attributes must conform to valid values

Additional manual findings using NVDA screen reader

1. **SC 1.3.1** – Grouped fields that are not checkboxes are not linked to the owning visual label.

2. **SC 2.1.1** – Calendar controls cannot be focused with the keyboard.

8. Embed Video

Source: https://docuseek2.com/fr-conc

Test case: Choose any film from previous search, click "Embed"
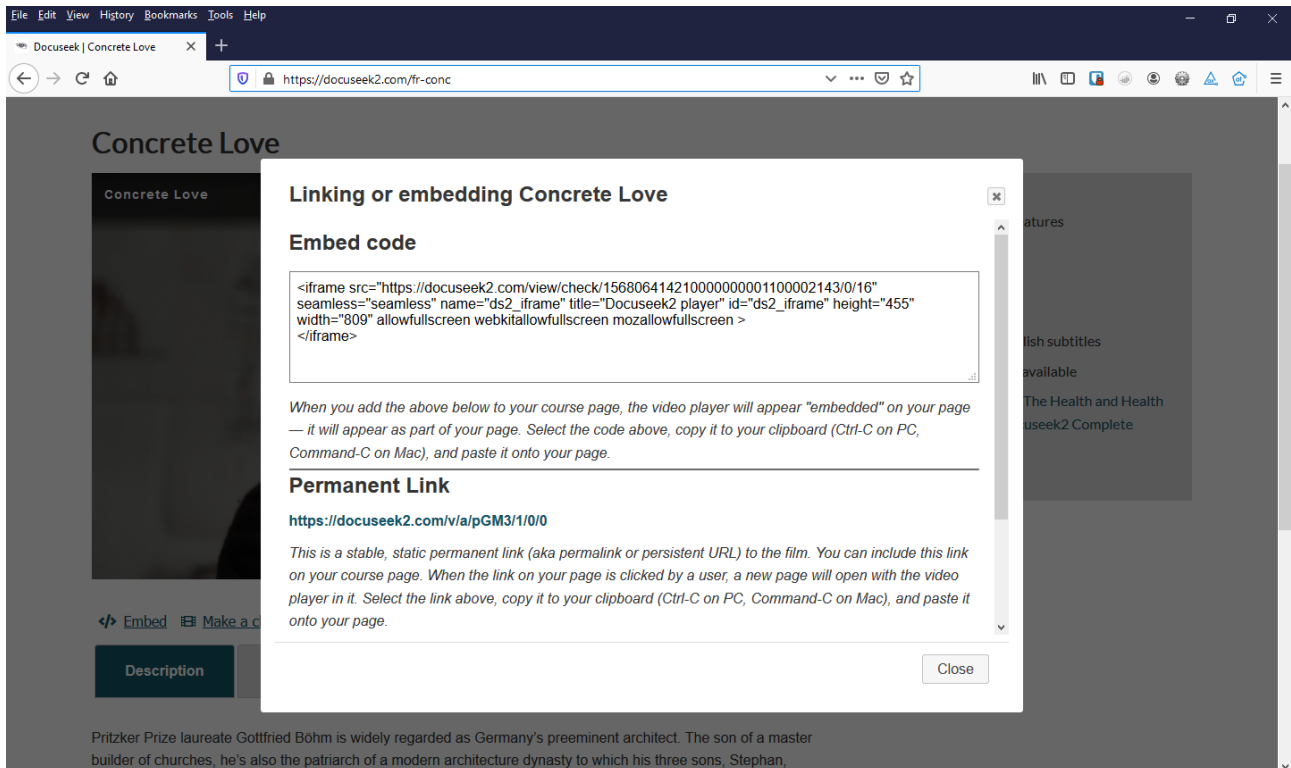
Additional manual findings using NVDA screen reader

1. **SC 2.4.3 –** The focus does not return to the trigger when the dialog is closed.