

Final Presentation

Building Bridges

Team Pinpoint

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22 April 2021

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- 3 Key Insight #2: Organize
- 4 Key Insight #3: Transfer
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1 Introduction



**“Archives should adjust
to [users]”**

- A



ArtCenter Archives: Project Description

Design a digital archival system that leverages commonly-used assistive technologies for viewing and saving research items



Participatory Design Sessions: What were we trying to discover?

- To understand how people currently save and organize information from the web
- To explore different features and tools that best assists the user's disability needs in order to view and save research items



Participatory Design Sessions: What activities did we show?

- Comic Strip
- Mid-Fidelity Prototype

15 minutes

Activity #1 Comic Strip
An image-based comic strip illustrating how the work.

KEY

- = Comment
- = Instruction

INSTRUCTIONS

We will present a scenario of how one would save a recipe from the web and reference for later. We are curious to know how you would use the interface. As we go through each scene, we will ask a series of questions for you to answer out loud. You don't need to worry about doing any technical work on your end. Adena and Jony will be here to write down your comments, while Kun will keep track of time.

Home Page

You want to research recipes for dinner or inspiration for work.

Search Results

You are then taken to the results page of the website's database.

Viewing Artifact

You come across a search result.

Bookmarking Artifact

You found the result helpful and wanted to save it for later.

Bookmarks (Collection)

When it's time to cook dinner or start work, you pull up the saved result.

Q&A

How long do you take skimming the search results and you finally choose one to save?

How do you determine which result is worth viewing?

Which media type do you prefer? Why?

How is it beneficial to your research process?

Why would you save an artifact? When would you access it again?

How would you visualize specific parts of an artifact (e.g., ingredients, cost of an recipe, photo, entertaining, etc.)

How do you usually organize the artifacts that you save?

How do you mark/bookmark? Do you think it's helpful or not? Why?

15 minutes

Activity Process (of Bookmarking Artifact)
An image-based process illustrating how the work.

KEY

- = Comment
- = Instruction

INSTRUCTIONS

Our team has designed a couple of screens that showcase how a clipboard would look like within the ArtCenter archive. We have a series of tasks we want for you to verbally walk us through in completing using the screens we have designed. We want to figure out what issues our screens have that prevent you from completing the tasks or give you a difficult time.

Viewing Artifact

Image Description:

Black navigation bar at top of image with logo, search bar, notification button and clipboard button. There is a blue heading bar. Below is a header trail of the image. Below that are some options for the image, such as flag, comments, and add to collection. The image has a search bubble pop-up comment on top of the image. There is an input field for a user to leave a comment. There is a button below to comment or cancel the comment.

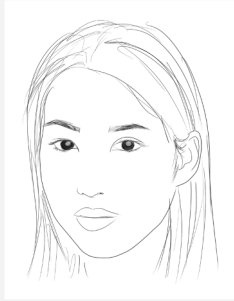
Image Description:

The image has the comment feature highlighted. A search bubble pop-up comment on top of the image. There is an input field for a user to leave a comment. There is a button below to comment or cancel the comment.

Bookmarking Artifact

Image Description:

On the far left is the logo followed by the search bar with nothing written inside. On the far right are three buttons: from left to right they are the notification, clipboard, and profile buttons. An image link is centered in the page with a bar at the top of options to toggle the image. Above the image is the title and below the image is the option to toggle bar on the left and to toggle viewing (highlighting image 5 out of 22). The add to clipboard option is unselected. The drop down menu is open under the add to clipboard button. It is highlighted with thumbnails of each collection, with a green new collection button at the bottom.



Participant:

“L--”

Disability: Low vision and hard of hearing

Tools used:



Organizational Preferences:

Well labeled folders as well as list format links on a word document. Multiple ways of holding all the information.



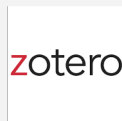


Participant:

“A--”

Disability: ADHD inattentive type

Tools used:



Organizational Preferences:

Zotero and well labeled folders. It is beneficial when a document is labeled properly, heading, subheading... , so that a text to speech reader can process it.

Activity #1: Comic Strip

1. Searching Comic Strip

Home Page

Image Description: A black and white 3d illustration of an individual sitting on an office chair in front of a desk with a desktop computer on it. Their face is not visible and in the background is a sofa and an empty shelf.



You want to research for a project, recipe or inspiration.

Search Results

Image Description: There is a front view of their face is slightly sad looking as they continue to stare at the desktop monitor. They are still sitting on the office chair behind the desk.

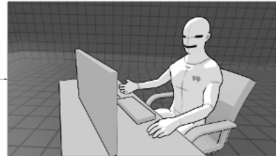


You are then taken to the results page of the website's database.

2. Viewing Comic Strip

Viewing Artifact

Image Description: Closer to the person now their eyes are closed and their expression is flat while behind their desktop monitor. They are still behind their desk and on their office chair.

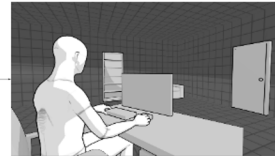


You come across a search result.

3. Bookmarking Comic Strip

Bookmarking Artifact

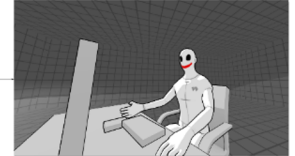
Image Description: We are behind the person sitting at an office chair in front of a desk with a desktop on top of it. Their hands are on the keyboard and mouse. In the far background we can see part of an empty shelf and a sofa. To the right of the sofa is a closed door.



You found the result helpful and wanted to save it for later.

Bookmarks (Collections)

Image Description: We are in front of the person again who now has a big red smite on their face as they sit at their desk viewing their desktop computer; their hands are off the mouse and keyboard on the desk.



When it's time to cook dinner or start work, you pull up the saved result.



Activity #2: Interface Analysis

Viewing Artifact



Image Description:

Black navigation bar at top of image with logo, search bar, notification button and clipboard button. There is a title in heading font. Below is a folder icon of the image. Below that are some options for the image, such as flag, comment, and add to clipboard. The image lies on a black background.



Image Description:

The image has the comment feature highlighted. A speech bubble pop-up comes up on top of the image. There is an input field for a user to leave a comment. There is a button below to comment or cancel the command.

Bookmarking Artifact



Image Description:

On the far left is the logo followed by the search bar with nothing written inside, on the far right are three buttons, from left to right they are the notifications, clipboard, and profile buttons. An image block is centered on the page with a bar at the top of options to navigate the image. Above the image is its title in bold, on the options to navigate bar on the far left is text saying, viewing displaying image 5 out of 22. The add to clipboard option is selected. The drop down menu is open under the add to clipboard button. It is in list format with thumbnails of each collection with a create new collection button at the bottom.

View Artifact Collections

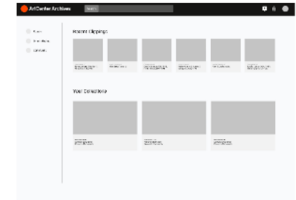


Image Description:

Black navigation bar at top of image with logo, search bar, notification button and clipboard button. On the left column, the tools listed are search, search history, community. On the main right column, first row, are the recent clippings. Each clipping has a visual preview that lists the media type and artifact title. On the second row, are saved collections with a visual preview, collection title, description, and keywords.



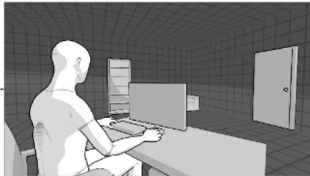
What were some of your assumptions?

- Need for collaboration within archives
- The use of an internal clipboard/saving system

3. Bookmarking Comic Strip

Bookmarking Artifact

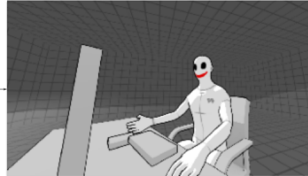
Image Description: We are behind the person sitting at an office chair in front of a desk with a desktop on top of it. Their hands are on the keyboard and mouse. In the far background we can see part of an empty shelf and a sofa. To the right of the sofa is a closed door.



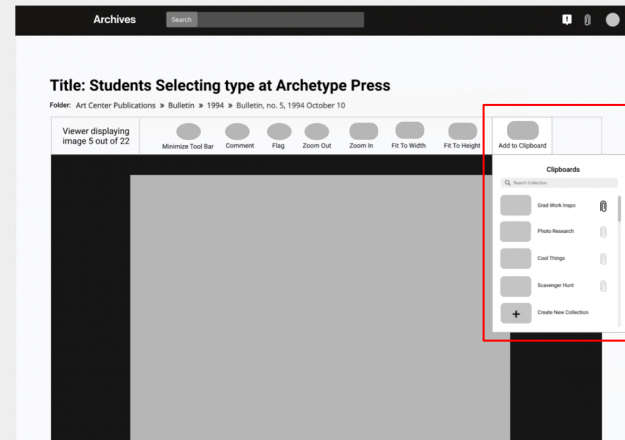
You found the result helpful and wanted to save it for later.

Bookmarks (Collections)

Image Description: We are in front of the person again who now has a big red smile on their face as they sit at their desk viewing their desktop computer; their hands are off the mouse and keyboard on the desk.



When it's time to cook dinner or start work, you pull up the saved result.



What shifted about those assumptions?

- Everyone has their own research process.
- People don't stay in the archive for too long unless they are doing in-depth research
- People already have working and efficient workflows

If I were: doing research in this I would probably create a collection I the archive even if not going back they would title collection and then save to collection

How useful would the collection actually be?

Preferred option is to just save

if it doesn't give you a way to save an image I will use the way to save it in the archive

prefer to use an outside program to [export and]organize content

no way to save to another program or organization software



2

Key Insight 1: Export

Exporting in multiple different forms

“We started off thinking how to make a collaborative archive but realized that it wasn’t what was needed.”

- Charlene Joy Dela Cruz

The Flow:

Grab the needed items and manipulate them outside of the archives.

The Need:

Users have to be able to easily export items from the web and transfer them into their preferred tools.

Possible Solution:

Design an archive that allows individual and mass item exporting and citing.



**“[I] Prefer personal research/
disposable research within the
website [...] For academic research
and more important research save
to the computer or to Zotero”**

- A



The screenshot shows the Zotero application window. On the left is a sidebar with a tree view containing 'My Library', 'Lab Reports', 'My Publications', 'Duplicate Items', 'Unfiled Items', and 'Trash'. The main area displays a list of references with columns for Title, Creator, and Year. The selected item is 'Puppy parties and beyond: the role of early age socialization practices on adult dog behavior' by Howell et al., 2015. On the right, a detailed view of this item is shown, including its type (Journal Article), title, authors (Howell, Tiffani J., King, Tammie, Bennett, Pauleen C.), abstract, publication (Veterinary Medicine: Research & Reports), volume (6), issue, pages (143-152), date (2015), series, journal abbreviation, language, DOI, ISSN, short title, URL, access date (3/9/2018, 3:10:18 AM), and modification date (3/9/2018, 3:10:18 AM).

Title	Creator	Year
The world from a dog's point of view: a review and synthesis of...	Bensky et al.	2013
Contagious yawning in domestic dog puppies (Canis lupus fami...	Madsen and Persson	2013
Dog breeds and their behavior	Serpell and Duffy	2014
In Search of 'Dog': Fictional Media Constructions of Dogs in the...	Carr	2015
Understanding your dog	Fox	2015
Puppy parties and beyond: the role of early age socialization pr...	Howell et al.	2015
A review of cognitive abilities in dogs, 1911 through 2016: more...	Arden et al.	2016
Why did the dog walk into the MRI?	Berns and Cook	2016
Why do people like small dogs with extreme phenotypes?: A re...	Sandøe et al.	2016
How to tame a fox and build a dog	Dugatkin and Trut	2017
Pet Researchers Confirm 100% Of Owners Who Leave For Work...	Shattuck	2017
The Effect of Head Tilt on Cuteness Perception in Puppies	White and Varakin	2017

Item Details:

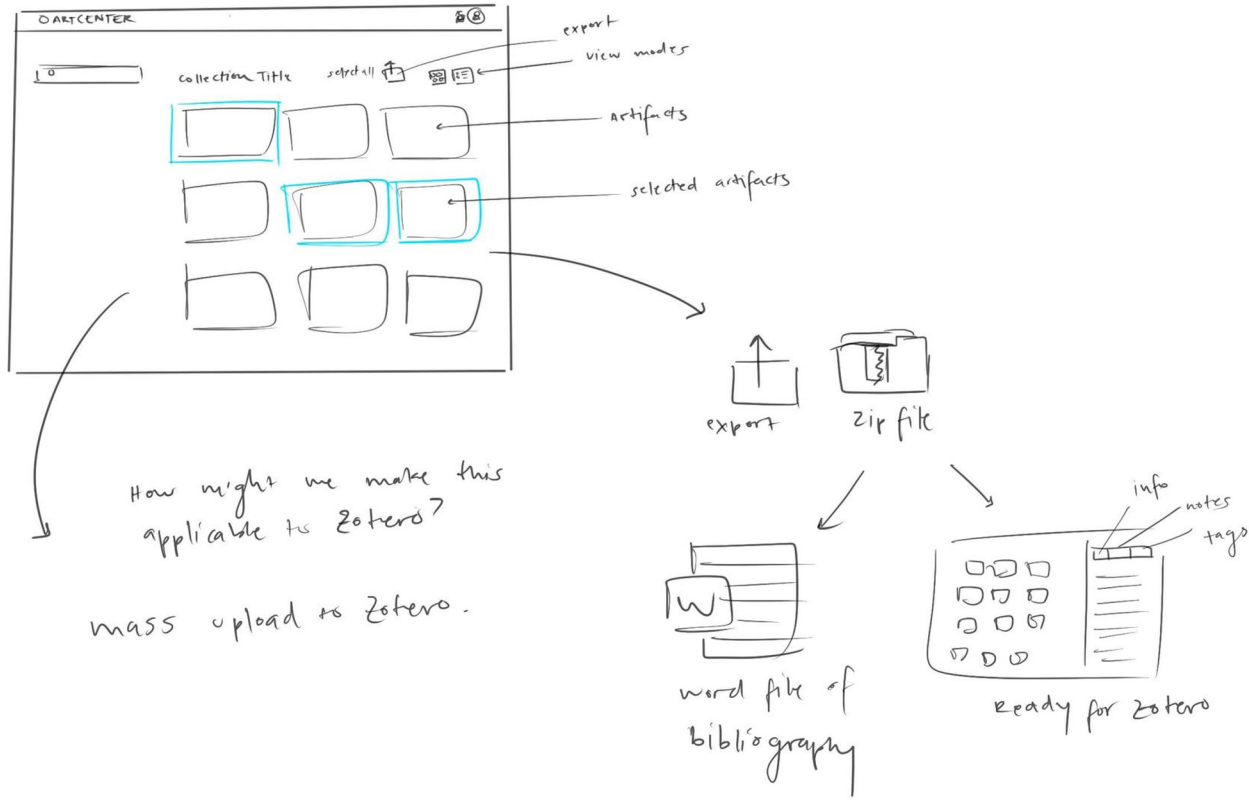
- Item Type: Journal Article
- Title: Puppy parties and beyond: the role of early age socialization practices on adult dog behavior
- Author: Howell, Tiffani J.
- Author: King, Tammie
- Author: Bennett, Pauleen C.
- Abstract:
- Publication: Veterinary Medicine: Research & Reports
- Volume: 6
- Issue:
- Pages: 143-152
- Date: 2015
- Series:
- Series Title:
- Series Text:
- Journal Abbr:
- Language:
- DOI:
- ISSN:
- Short Title: Puppy parties and beyond
- URL:
- Accessed:
- Archive:
- Loc. in Archive:
- Library Catalog: Google Scholar
- Call Number:
- Rights:
- Extra:
- Date Added: 3/9/2018, 3:10:18 AM
- Modified: 3/9/2018, 3:10:18 AM

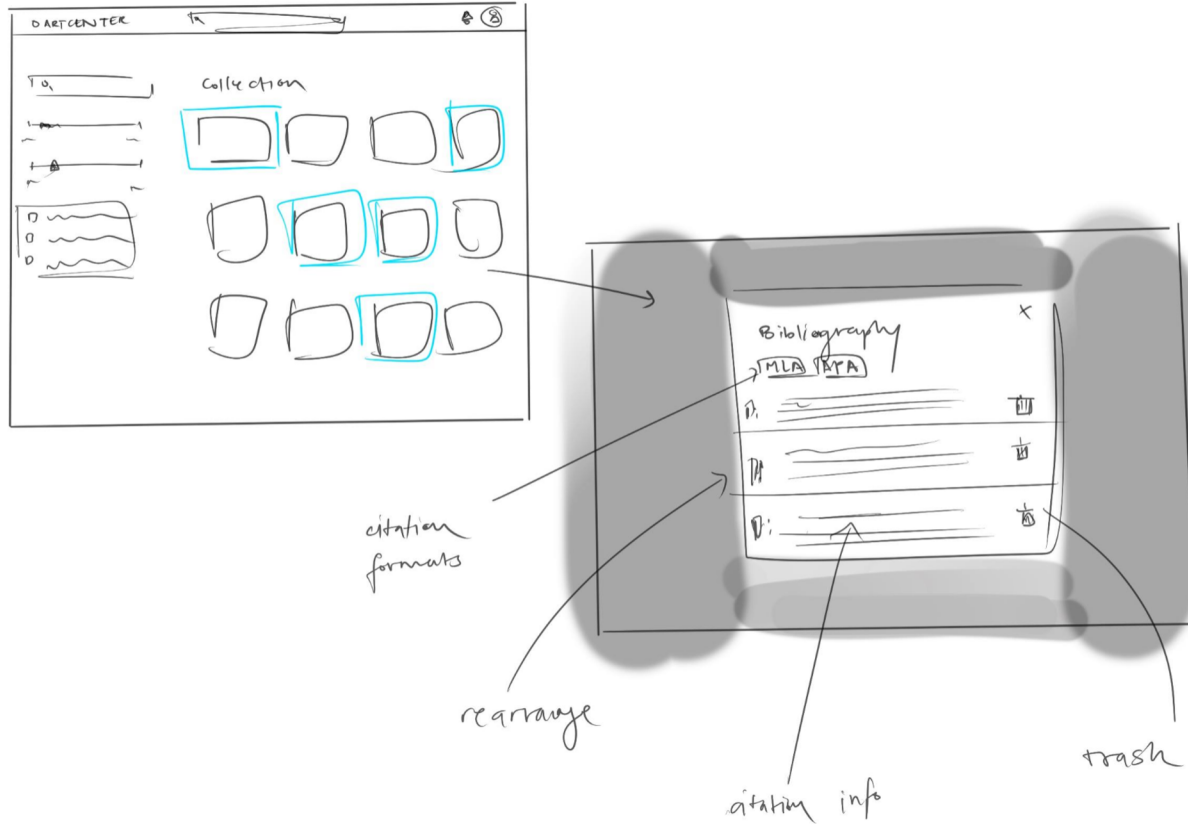


“If [an archive] doesn't give me a way to save an image [to my computer] then I will use [the built in program] to save it in the archive”

- A







ArtCenter Archives Browse Log in

American Institute of Graphic Arts, 1938

[Exhibitions and Galleries](#) >> [Exhibition records](#) >> [Exhibitions](#) >> American Institute of Graphic Arts, 1938

Viewer displaying PDF

Zoom In
Zoom Out
Fit To Width
Fit To Height
Fullscreen

Export to

- PDF
- Word Doc
- Plain Text
- XML

Cite

Format MLA

"American Institute of Graphic Arts, 1938." AtoM, archives.artcenter.edu/american-institute-of-graphic-arts-1938.

Save to Your Collections +

- BULLETIN Graphic Design Research
- Visual Inspirations
- + New Collection

ArtCenter Archives

Browse ▾
Search ArtCenter College of Design Archives 🔍
🔗
🌐
👤
Log in ▾

ADVANCED SEARCH

Search Results for “Graphic Design Brochure”

☰ List View
🗪 Grid View
🔖 Bookmark
📄 Export Selected (3)

🏠 Part Of +


👤 People +

🏠 Collections +

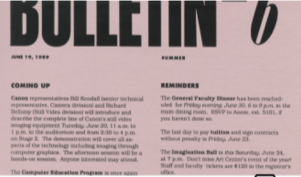
📍 Place +

📄 Subject +


📁 Media Type +




Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989




Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989



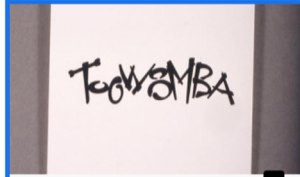
Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989



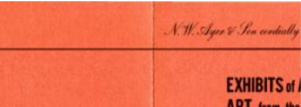
Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989





Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989



Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989









The screenshot shows the ArtCenter Archives website interface. At the top, the logo "ArtCenter Archives" is on the left, and navigation elements including "Browse", a search bar with "Search ArtCenter College of Design Archives", and "Log in" are on the right. The main heading is "Search Results for 'Graphic Design Brochure'". Below this, there are view options: "List View", "Grid View", and "Bookmark". A sidebar on the left contains filters for "Part Of", "People", "Collections", "Place", "Subject", and "Media Type". An "Export Selected (3)" button is visible in the top right of the search results area. A white modal window titled "Export (3) Files" is open in the center, listing export options: "Files", "Citations", "PDF", "Word", and "XML". A black "Export" button is located at the bottom of the modal.



3 Key Insight 2: Organize

Manipulating the website layout to be compatible with assistive technology

“The most meaningful design intervention is to be respectful to the technologies people already use.”

- Joey Serricchio

The Flow:

Users have their own way of organizing found items for their research.

The Need:

Participants need tools that could provide specific hierarchy to their found items.

Possible Solution:

Provide a multi-layer organization system that includes color hierarchy, iconography, and nesting folders.



Importance of Hierarchy

- 🌸 **Transcripts**
- 👉 **Screen Reader Frames**
- 🌸 **Alt-text**
- 🌟 **Color highlighting**
- 🥝 **Nesting Drop Downs**
- 👤 **Icons**



Transcripts

ArtCenter Archives
Browse

Log In

View History

Fine Art Department photographs

[Fine Art Department](#) >> [Fine Art Department photographs](#)

[Basic Info](#) [Image](#) [Transcripts](#)

[AI-text](#) [Screen Reader](#)

Singlepanel
 Multipanel

Quick Search

Holdings

Image

Students drawing from a female model posing in Lorser Feitelson's class

Identity elements

Content and structure elements

Scope and content: Newsletters, minutes, correspondence, photographs, and other materials document the planning activities, events and meetings of the Art Center Wives Club. The majority of the documents is the club newsletters which provide information regarding the club ...

System of arrangement: Series 1: Papers
 Series 2: Photographs

Conditions of access and use elements

Conditions governing reproduction: Copyright held by Art Center College of Design (Pasadena, Calif.) unless otherwise noted in the individual records.
 Digital materials and catalog records are made available for educational and research purposes only and cannot be reproduced, distributed, ...

Transcripts

Founded in 1956, the Art Center Wives Club was sponsored by Art Center to serve as a social and support group for the wives of the college's male students. With monthly meetings, the group had guest speakers, played bridge, and shared news of jobs and available apartments. After it had become well established, the Art Center Wives Club sponsored dances, picnics, and talent shows, and volunteered time to a variety of community organizations. The group tried to make new students' wives welcome and often had

Screen reader frames

ArtCenter Archives

Browse Search ArtCenter College of Design Archives Log In

View History

Fine Art Department photographs

Fine Art Department → Fine Art Department photographs

Basic Info Image Transcripts AI-text Screen Reader

Singlepanel Multipanel

Quick Search

Search

Holdings

Image

Students drawing from a female model posing in Lorser Feitelson's class

Identity elements

Content and structure elements

Scope and content Newsletters, minutes, correspondence, photographs, and other materials document the planning activities, events and meetings of the Art Center Wives Club. The majority of the documents is the club newsletters which the club ...

System of arrangement **Series 1: Papers**
Series 2: Photographs

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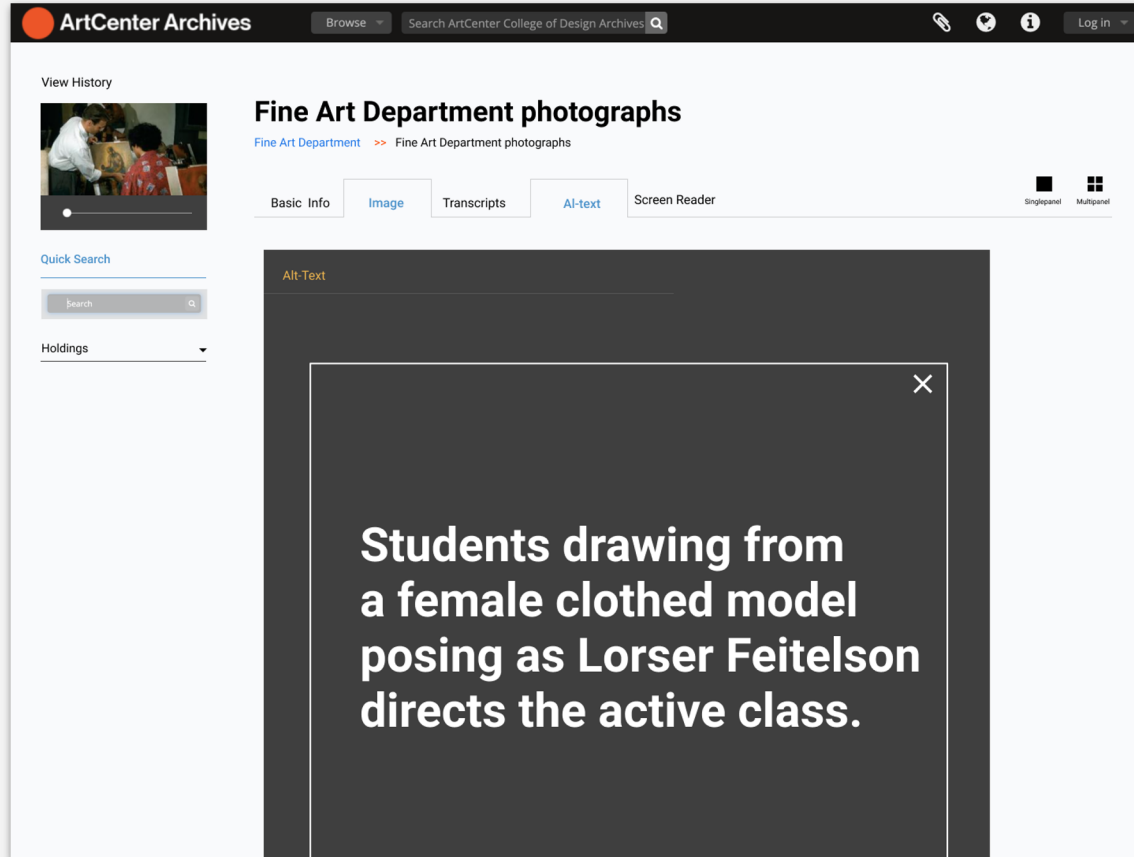
Digital materials and catalog records are made available for educational and research purposes only and cannot be reproduced, distributed, ...

Transcripts

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Alt-Text



The screenshot shows the ArtCenter Archives website interface. At the top, there is a navigation bar with the site name, a search bar, and utility icons. The main content area displays the title "Fine Art Department photographs" and a breadcrumb trail. Below the title are tabs for "Basic Info", "Image", "Transcripts", "Alt-text", and "Screen Reader". The "Alt-text" tab is active, showing a large dark overlay with the text: "Students drawing from a female clothed model posing as Lorser Feitelson directs the active class." To the left of the main content, there is a sidebar with a "View History" section, a "Quick Search" box, and a "Holdings" dropdown menu.

ArtCenter Archives

Browse Search ArtCenter College of Design Archives

View History

Fine Art Department photographs

Fine Art Department >> Fine Art Department photographs

Basic Info Image Transcripts **Alt-text** Screen Reader

Singlepanel Multipanel

Alt-Text

Students drawing from a female clothed model posing as Lorser Feitelson directs the active class.




















Quick Search

Search

Holdings



Icons

	Part Of								
		Zoom In	Zoom Out	Fit to Width	Fit to Height	Fullscreen			
	People								
	Collections		PDF						
			Word Doc						
			Plain Text						
	Place		XML						
	Subject								
	Media Type		Singlepanel		Multipanel		Export Selected (3)		Bookmark



“If physical textbook is less than 200 dollars I highlight heavily”

- A

“[I] wouldn't have to read [if I know] all green are food items...”

- L

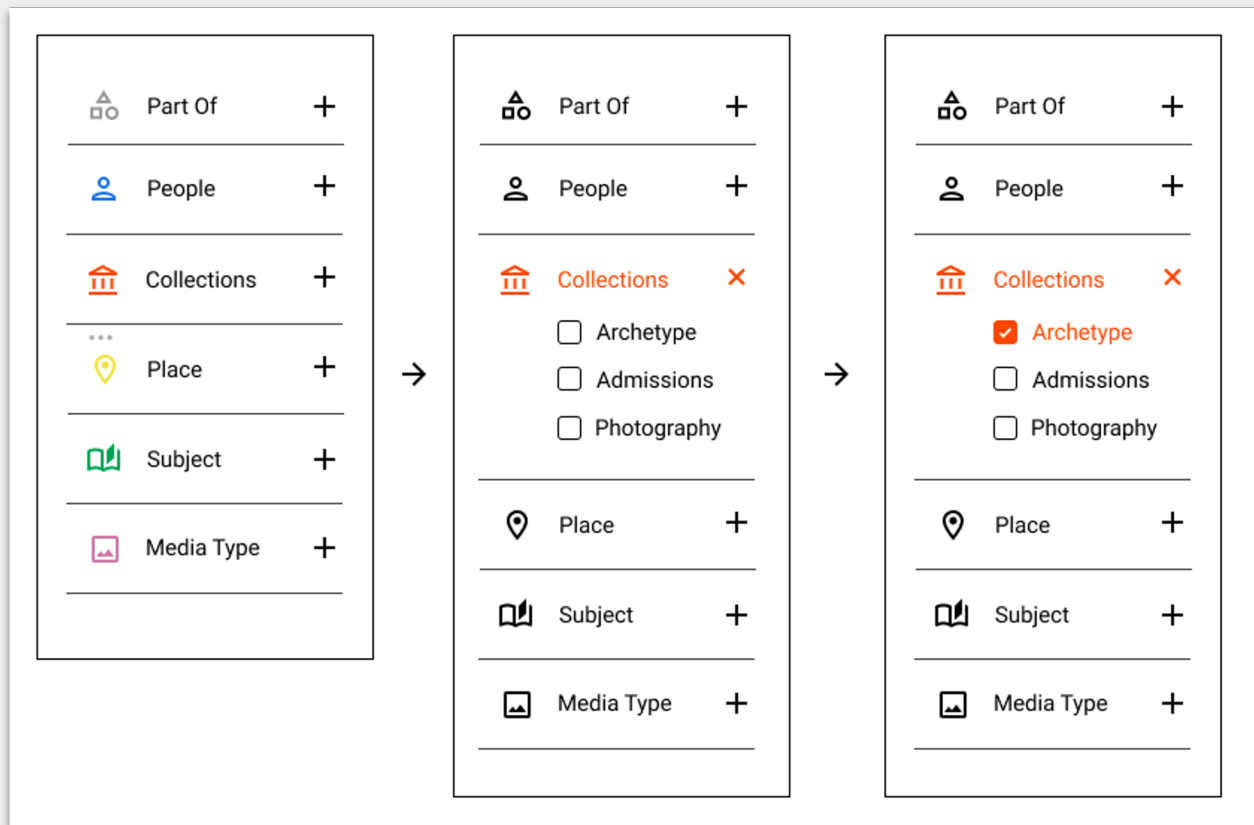


☀ The Highlighting Feature

The screenshot displays the ArtCenter Archives interface. At the top, the header reads "ArtCenter Archives". On the left, there is an "ADVANCED SEARCH" section with filters for "Part Of", "Creator", "Name", "Place", "Subject", and "Media Type", each with a radio button and a plus sign. The main content area features a search bar and a breadcrumb trail: "Home > Collections". Below this, the word "Collections" is prominently displayed. A navigation bar contains two items: "Research for Midterm" (highlighted with a purple border) and "Fun stuff to look back at" (highlighted with a red dashed border). The main grid consists of six placeholder cards, each with a "Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989" caption. The top-right card is highlighted with a red dashed border, and the bottom-left card is highlighted with a red dashed border. The middle card in the bottom row is highlighted with a purple border.



Nesting dropdowns + ☀ Color Hierarchy



4 Key Insight 3: Transfer

Bridging Archives to Third Party Accessibility Tools

“People with disabilities have their own systems in place. We have to acknowledge that and design around it.”

- Elise Co

Transfer

- Rather than providing built-in tools and force users to adjust to a new mental model, we found it more beneficial to construct the archives to be compatible with their preferred tools.



Browser Specific Tools



- Assess
- Accommodate
- Advanced reading



- AI-powered
- Listening assistant
- Choose voice/language



- Collect with a click
- Organize your way
- Cite in style



Screen Readers

- **NVDA** (NV Access; available for Windows computers)
- **JAWS** (Freedom Scientific; available for Windows computers)
- **VoiceOver** (Apple; available for Mac computers and iOS devices)
- **TalkBack** (Google; available for Android devices)





The image shows a screenshot of the ArtCenter Archives website with a Capti overlay. The website header includes "ArtCenter Archives" and navigation options like "Browse" and "Search". The main content area is titled "American Institute of Graphic Arts" and features a PDF viewer with controls for zooming and fitting. The PDF content includes a title "ART from the SIXTEENTH ANNUAL EXHIBITION of the ART DIRECTORS CLUB OF NEW YORK" and a paragraph starting with "In sponsoring sixteen annual exhibitions of advertising art since 1921, the Art Directors Club of New York has successfully called public attention to the conscientious endeavor expended in making advertising ever more beautiful, ever more effective. In 1937 more than six thousand entrants were submitted to the club's". A sidebar on the right contains a search bar, a "Save to Your Collections" button, and a list of collections including "BULLETIN #6 Graphic Design Research" and "Visual Inspirations". The Capti overlay is a blue and white interface with a play button, a language dropdown set to "English (auto)", font size controls (A+, A-), a volume slider at 0%, and a "SAVE" button. It also includes a "PLAYLIST" and "VOICES" section. A message in the center of the overlay reads: "Select some text and press **Alt+Q** to listen or **Alt+X** to read".





The screenshot shows the Zotero application window. On the left is a sidebar with a tree view containing 'My Library', 'Archive Research', 'My Publications', 'Duplicate Items', 'Unfiled Items', and 'Trash'. The main area is divided into three panes. The top pane shows a table with columns for 'Title', 'Creator', and 'Date Added'. A row is selected, and a context menu is open over it, listing options: 'Book', 'Book Section', 'Document', 'Journal Article', 'Newspaper Article', 'Link to File...', 'Store Copy of File...' (highlighted), and 'More'. The middle pane shows the details for the selected item, 'Adams family papers -.webarchive', including its filename, modification date, and indexing status. The bottom pane shows a rich text editor with a toolbar containing various text formatting options like bold, italic, underline, strikethrough, subscript, superscript, text color, background color, text color, link, and unlink.





Listen to any text on the web

Project Scope

Step 1 : Building the team

For the first quarter of 2021, we will be building our brand new website. In order to achieve this project by the end of March, we will be positioning the entire team in building this project.

Stay focused with AI-powered voices

From : John


Hi Juliet. I have received the letter from your father yesterday in the mail.

Did you manage to find the keys to the apartment?

Voices →

- Simeon Male
- Anika Female
- Chen Female

PDF support is in beta. [Click here to help us improve if you are facing an issue.](#)



REALSPACE

Stephen Nowlin

The idea of space is given to the artist to change if he can.
Willem de Kooning

I think a painting is more like the real world if it's made out of the real world.
Robert Rauschenberg

I.

As a way of knowing about things, humans began eons ago to make marks on flat surfaces. Some of those marks remain on the walls of ancient caves, left behind by famously anonymous artists whose paintings were informed by wildlife anatomy and the habits of migrating animal herds—nascent art and science from seventeen thousand years ago. Curious and pattern seeking by nature, those early agents of evolutionary survival and gatherers of knowledge represent a continuum of archaic researchers, innovators, and makers who also invented imaginary explanations for the parts of their world that pattern could not explain, and they mixed all those elements, real and imagined, into a web of belief that for thousands of years have assessed our porous

Hide Controls



☀ Exporting Directly to Assistive Technologies

The screenshot shows the ArtCenter Archives website interface. At the top, there is a navigation bar with the logo, a search bar containing "Search ArtCenter College of Design Archives", and utility icons for a link, social media, information, and a "Log in" button. Below the navigation bar is a search results page titled "Search Results for 'Graphic Design Brochure'". On the left side, there is a sidebar with "ADVANCED SEARCH" and several filter categories: "Part Of", "People", "Collections", "Place", "Subject", and "Media Type". The main content area shows search results in a grid view. A modal dialog box titled "Export To Capti" is overlaid on the search results. This dialog box contains a list of export options: "Collections", "Plain Text", "PDF", "Word", and "XML". Each option is accompanied by a small icon representing the file format. At the bottom of the dialog box is a black button labeled "Export". The background search results show three items, each with a thumbnail image and a caption: "Screenshot of Review, Volume 2, Number 1, Spring Issue, May 1989".



**“Everyone learns differently.
Adapt with what the individual
needs.”**

- L



5 Reflections



How did your understanding of the accessibility space change?

- Overlaps between different disabilities focused on the need for clear organization and hierarchy
- Need for an updated universal design guidelines for all websites to follow to be compatible with assistive technologies



6 Next Steps



Project Continued (Summer 2021)

- Streamline a bookmarking user flow from search to view item to collection
- Unify the language in saving and exporting items and collections
- Explore how bookmarked items would live outside the archive



Thank You