

Pipeline of future ideas for [CC Search](#)

To contribute your ideas:

- [Fill out this feedback form](#)
- [Email us](#)
- [Sign up for a Usability Test](#) and help us improve.
- Join the [#cc-usability](#) channel on the [Creative Commons Slack](#)
- Check out [Creative Commons Open Source](#) and [join our developer community](#).

*This is a list of pending ideas we have collected from staff and community, but have not committed to. CC Search team will review and decide which ideas to incorporate on a regular basis. **This document is read-only.***

User Interface Improvements

1. Link to developer support tools in CC Search, e.g. GitHub
2. Autocorrect/autofill of text
3. Filters: flip it so default is all and you remove options, not add
4. iPad App
 - a. E.g. similar functionality to the new Chrome extension. The ability to bookmark and download images with attribution are great features that would be very useful to iPad users.
5. Small thumbnails

Search Improvements

1. Curate content via AI, e.g. [topic modeling](#)
2. Allow curating content manually
3. Surfacing PD (public domain works) more in search
4. Narrow use case search (customized search experiences for specific use cases of CC Search)
5. Filter photos by date taken (possible use case: searching for images of a disaster of a site)
 - a. date ("within x-y", "last 1 day/week/month/year").
6. Filter for graphic design
7. Filter for 3D designs
8. Filter for "type", e.g. art, clip art, drawings, icons, etc.

9. Filter for main colors
 - a. **Note: we are working on applying machine learning to images to be able to support a filter like this**
10. Allow sorting of results
 - a. E.g. by picture service, relevance, upload date etc.
 - b. Allow sorting of oldest to newest, or newest to oldest
11. Use PageRank-style algorithms to improve search result relevance.
12. Integrate old CC search (oldsearch.creativecommons.org) into front end UI
13. Filtering by EXIF data (geoposition, and typical photography details like camera model / aperture / focal length).
14. Search filter on 360 degrees photos
15. Create a setting to show only kid-friendly results (remove images with profanity)
16. Revisit the user experience of serving up 3D models. Raw untextured 3D models don't seem like they fit in gracefully with the other content.
17. Expose Descriptions of images when available
18. Support Boolean search
19. Include Google Images
 - a. **Note: not possible via API, but we're looking at how to build in the old functionality of CC Search to new CC Search, for this.**
20. Allow browsing without search terms
 - a. **Note: currently possible through Collections.**

Catalog Improvements

1. Scrape CC-REL data in Search
2. Add known databases of content comprised of legal decisions and laws that are already available in trusted databases, such as Harvard's and Cornell's.
3. Add more art sources
4. Ingest CC licensed images from NASA
- 5.

Education and Accessibility

1. Add multilingual support for CC Search and translate CC Search into other languages (**planned for 2020**)
2. Educate people about CC in CC Search
3. Add information on how to attribute things in print or on the web or in a video / guides or tools or other (Citation How To) (**planned for 2020**)
 - a. Making these guides easier to find from CC search and from cc.org

Tools for Creators

1. Pilot user services (e.g., archiving, user analytics, gratitude/Patreon models)
 - a. Buy a creator a coffee – micropayments for usage
2. Add a tool or product to allow content creators to track their CC-licensed work across the web like Google's reverse image search
3. Create a way to contact CC work creators
4. Create a way for people to contact CC super-users

Tools for Users

1. Allow attribution with no clicks necessary
 - a. E.g. for images that have an Attribution requirement, providing an option to download a version of the image with a CC compliant watermark.
2. User accounts on CC Search
 - a. Allow users to create lists and favorites from search results
 - b. Allow users to save commonly used filters
3. Prototype user-submitted metadata, saving it back into the CC Catalog and share with sources
4. Call-and-response tools to support collaboration (e.g., "Ask for a work; find a contributor")
5. Reputation tool... so and so has found.. 50 best cat images... so you could go to a users list of things...
 - a. Curating by trusted people or trusted lists, e.g. IMDB user lists that show up on individual movie pages are useful for movie recs
 - b. Maybe do this for a small use case, like educators/texts
 - c. Likes/Dislikes
6. Meme creator
7. Add something similar to a Certified Source (similar to Twitter/Instagram certified accounts) from certified sources (GLAM and if possible certified accounts on Flickr)
8. If you've searched/reused certain categories of images - getting an update when some critical mass of new images in your interest area are added to Search
9. CC Search straight inside content publishing tools like WordPress, Google Slides
 - a. **Being investigated in 2020.**
10. Plugin for interface design applications like sketch or Adobe XD to get categorized images into designs, also MS Powerpoint/Apple keynote
11. Develop a plugin for Firefox for crowd-identification of CC resources available on the web.

12. Show other places that the images are used (e.g. "this image is used on Wikipedia in the Foo article")
13. Prototype unique ID for every CC work with a Shares.cc short URL
14. Enhance Attribution tool to include a "WordPress caption" format
15. Way to directly submit work to CC Catalog
16. Generate better names when saving content directly
 - a. When doing Right Click > Save Image As, content should automatically be named with "Title_Creator.extension" versus a string of numbers and letters.
17. Attribution Browser Extension ([see GitHub comment](#))
 - a. An extension as an "attribution builder" that is somewhat similar to this extension in outputs, but assumes the user is starting out at a web page with the actual image they need. It could facilitate choosing and downloading *one* image in web page as "filename.ext" and image metadata and attribution as filename.txt. (I am *not* talking about a bulk downloader!) It *might* make a first pass at scraping what information it could from the web page (e.g URL, Title, Organization, etc). Since it may be difficult to automate determining the license itself, it could offer, perhaps, a checklist of CC licenses to choose from with links to CC licence deeds. It might offer a link to a "help guide" on how to determine which license is correct. If the web page is not from a whitelist of good sites (e.g Wikimedia Commons or other site with open licenses) it may offer a warning or disclaimer. It may offer some non-CC license option(s), albeit with a warning about reuse; since even an image with a restrictive copyright can, under certain conditions, be "fair use" for a scholar to acquire for personal use. This could have editable fields, for the title, URL, person/maker, organization, etc. in case these were not quite right or missing. It might use these fields and license to suggest an attribution string in plain text, markdown, HTML--or dare one hope, eventually, LaTeX format to add to filename.txt.
18. Widget integration for Word

Tools for Providers

1. Develop a way for collections to contact us/add their stuff to CC search, e.g. how do they have to structure their metadata, minimal guidelines about license marking (**planned for 2020**)

Infrastructure

1. Switch away from Google Analytics.
2. Plan and perform load testing to answer the open questions about the scalability of our API infrastructure
3. Cache top search results for better performance
4. Improve testability of Ingestion Server by selecting a small subset of each provider in CC Catalog for testing and loading it into api-dev. Our dev site test data is static and does not do a good job of detecting data problems before they hit production
5. Move data pipelines to Terraform

Tabled/Rejected

- Allow PNG downloads with transparent backgrounds
 - ***Note: for the time being this is tabled, as we don't have download functionality. Users are encouraged to go to the source to download content.***
- Copy Images to Clipboard
 - ***Note: we do allow users to copy attribution info, and the HTML includes an image embed.***
- Implement adding OCR and object recognition data for all images
- A reverse image search engine to help users find images they are interested in as tags tend to be noisy.
- CC Archive for creators to back up their work ([mockup 1](#), [mockup 2](#)) and add it to CC Catalog. Tie in CC license chooser with CC Archive and CC Catalog.
 - ***Note: we plan to tackle individual licensing & submission guidelines, but will not, at this time, provide an Archive service.***