Accessibility of Open Access Books

	PDF	EPUB
Grade A	0.5%	13%
Grade B	71%	20%
Grade C	7190	38%
Grade D	25%	28%
Grade F	2%	1%



Easy fix?

Can we improve the description of pictures, using the AI tool Claude? We tested this for 100 random images from books of the OAPEN collection. Where the publisher has made an effort to supply alt-text, they did better than the Al. The Al gets confused by characters and icons, which might be improved by changing the prompt. Ironically, Al works best

Alt-text: Dos and don'ts

- use an empty string for purely decorative

- when an image is meant to convey an action, try to use a single word: download" or "email".

- remember that the purpose of a cover image is

to intrique a reader.

- use the language of the text for the alt-text - think about what an image is meant to convey

- use text like "image" or "figure 22" in alt-text. That's just taunting a blind

- use the file name for alt text

- repeat what is already in a caption. - describe details that are irrelevant to

- describe logos. Just identify them.

- make up shit

How did we grade?

EPUB accessibility grades (1157 books):

• A (156 books) These EPUB3 files had useful alt-text and accessibility data.

• B (226 books) These EPUB3 books had accessibility data but no useful alt-text.

• C (443 books) These EPUB3 files need accessibility mitigation.

• D (329 books) These EPUB2 files will be hard to upgrade for accessibility.

• F (13 books) These books failed to download as EPUB files.

PDF accessibility grades (based on 1000 randomly sampled books):

• A (5 books): These PDFs comply with WCAG-1 and PDF-UA accessibility

• B or C (714 books): These PDFs comply with WCAG-1 requirements but fail

PDF-UA accessibility requirements.
D (251 books): These PDF fail all requirements tested.
F (20 books): The PDFs could not be opened. (Either too big or not valid PDF)

Focus on: Alt-text

Image	Publisher Alt-Text	AI Alt-Text
-/	"img10-pag"	"The image shows a close-up view of a grey wolf standing in a grassy field. The we has thick gray fur, pointed one, and is looking directly at the camera with its golder eyes. A shallow depth of field keeps the background blurted while the wolfs face is diary focus."
	jes	"The black and white image above a Burger King restaurant streethers. Standing in other restaurant retory-cong distliner, an older gift in a long-does holding a cou- gist's hand. The Burger King logo is preemnently displayed on a large round sign sh the entrance."
建玖皮	"image"	"Three Chinese characters written in calligraphy style using black ink on white background."
TEN STATE	FIGURE 39. Advertisement for Verdoms—personed for its address, 6666 Street blod, and its posturité so the Witter Cade-he but rice per probletable by Verdom's younge, W. R. Witterser, Source: "6666 Street Blot." [Advertisement], Hellywood Segrent, April 34, 1976. James Street, 1976. 1976	The image is a vitage-opte may showing the location of Stanet Rederood and Haghband Avenue in the Angelon. In mention: The Worlds For copies seen in Child 1666-Stanet opens soon in Hollywood!" The address of 666 Stanet Blud is highlight along with most permanging a new bassess supering those called "Hob-Bell". The re- uses a fun, veto graphic Occips style with hold lines and shapes."
_	"Graph depicting the gap in tetal outgoing requests and transfers"	"The line graph shows the total outgoing requests and outgoing transfers over time 2004 to 2016. Both metrics have increased exponentially, with total outgoing reque proving from around (20,000 in 2004 to over 120,000 in 2016, while outgoing trans rose from nearly 0 to about 20,000 during the same period."
GEISS HSW	The Geiss Has Foundation lego."	'The image above a simple line drawing of the better 'GC', 'He' and 'F' overlappin cach other, with the test 'GESS HSU FOUNDATION' below it.'
OUNDATION	Flack Cover. A Fasion to Preserve: Gry Men as Kopens of Culture, by Will Fellows justifies jetture a bromn (eds. Grip Gry and Leisbian justimed Malery/Assistant-Sulviens's Preservation. Larger Assart Frinds in James Harder (Assart Market State). Larger Assart Frinds justimed Malery (Assart Market State). Larger Assart Frinds Larger (Assart Market State). Larger Assart Frinds Centure Class, Bay Windows, The University of Wincoms Press, Maldiser, Wasserda Control, December (1998). Larger Market Market (1998). Larger Market (1998). Larger Code, (Djourn right) (1998). Larger (1	The irruge shows the back cover of a book tifed "Firm Boys" by Will Fellows, is was a finish for the Lambda Library Award in 1997. The book exploses the libes men who gives up in rad commandains cause to United Boats, ex-riving early as men who gives the library in the commandation and builded boats, ex-riving early as extended to the cover features a photo of the author, a bald man with glasses smiling a camera."
,		"L'image montre un gros plan en noir et blanc d'un cheval. La tête et le cou du che- sont violètes, svec l'ani, les rasseaux et la crinière bien détaillés. L'image est centré l'est expressif de cheval, qui regande directement la coméra. Le contrasse élevé ent genes claires et sumbres crès une atmosphére chamunique et sainissante."
FIFLDS GOLD	"teures"	"The image shows the cover of a book tilted "Fields of Gold: Financing the Global Routh" by Modelier Fairtheim. The tilt to cox is in white on a weeden background similar saids scattered across the surface."
村民小组	"image"	"The image shows the Chinese characters "村民小語" written in a traditional Chin calligraphic style with black ink on a plain background."
SKNOTI BE PIECES IN THE DOTTETHIN OF ACTIONS IN	[†] corar ^a	The image, about the core of a book their Signature Rices. On the Institution Authoritys' within Progr. Stant Dis the first and subservation we regimed in wheter on a dark green background, with a red vertical stripe on the right side of the or the right side of the control of the right side of the right side of the control of the right side of the right side of the control of the right side of the right
Secretary of the secret	"Images"	The single shows handwrites Arabic text on a weathered sheet of paper. The text written in Mark lisk and appears to be a poem or piece of press. The paper has an experience of the paper has a proper should be a poem of the paper has no should be a paper sight corner of the page."
Decimal Andrews	Screenshet of an iOS workflow to append clipboard scot*	The image shows an IOS Shortcurs workflow with the following actions: I. Get Cliphoute Retrieves content from the citybout 2. Text. Albuse cettering or manipulating text. J. Ciphouted Sch the workflow staget to the citybouted 4. Capp staget and the citybouted 4. Capp the citybouted 6. Capp the cit