

Notably Inaccessible – Understanding Data Science Notebook (In)Accessibility

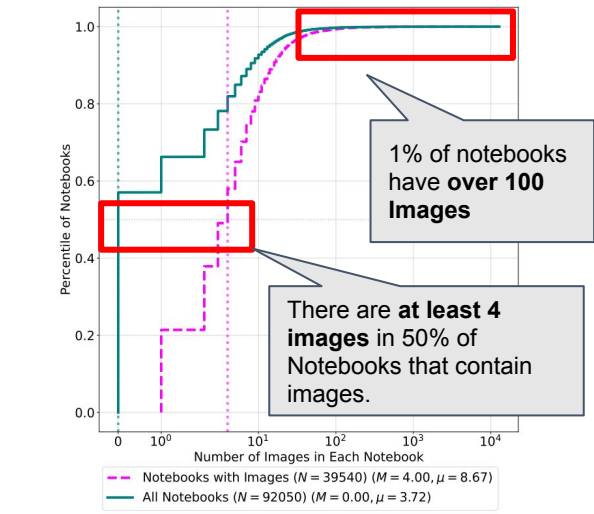


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Computational Notebooks are Inaccessible

Warning
 As of January 2023 this software is **not accessible**. Significant work will be required to reach that goal.

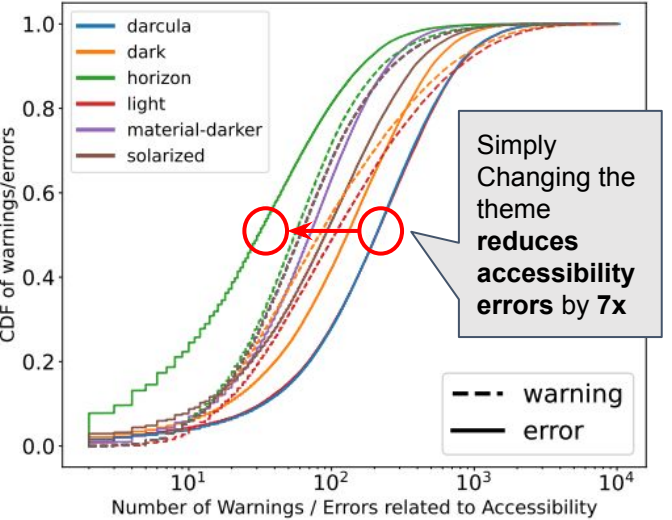
How widely are Images used in Python Notebooks?



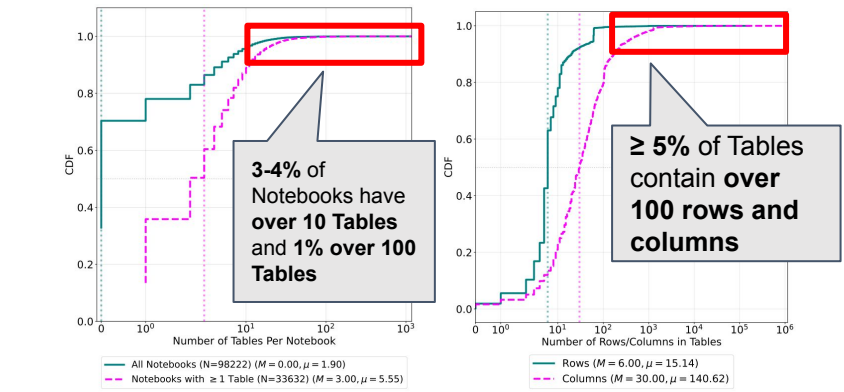
Unhelpful ALT-Text's found in Notebooks

ALT Texts in Notebooks do not convey useful information

How accessible are the default themes?



How are Tables used in Notebooks?



How Glanceable are Notebooks to a Screen Reader User?

	Rank	Size (Bytes)	Edge		Chrome		Firefox Nightly		Safari
			NVDA	JAWS	NVDA	JAWS	VoiceOver	NVDA	JAWS
N1	1 (P10)	630352	✓	✓	✓	✓	✓	✓	✓
N2	2 (P25)	634340	✓	✓	✓	✓	✓	✓	✓
N3	3 (P50)	721056	⊖	⊖	⊖	⊖	⊖	⊖	✓
N4	4 (P75)	997861	⊖	⊖	⊖	⊖	⊖	⊖	✓
N5	5 (P85)	1362512	✓	✓	✓	✓	⊖	⊖	✓
N6	6 (P90)	1900465	⊖	⊖	⊖	⊖	⊖	⊖	✓
N7	7 (P95)	191538	⊖	⊖	⊖	⊖	⊖	⊖	✓
N8	8 (P99)	10955553	✗	✗	✗	✗	⊖	⊖	✗
N9	9 (P100)	103790428	⊖	⊖	⊖	⊖	⊖	⊖	✓

What Types of Figures are Most Commonly Generated?

