Converting Colors - WCAG Matrix

Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix.

	Hex(404040)	Hex(454046)	Hex(4A404D)	Hex(4F4053)	Hex(544059)	Hex(594060)	Hex(5E4066)	Hex(63406C)	Hex(684073)	Hex(6D4079)
Hex(404040)		Ratio: 1.02 Failed [5]	Ratio: 1.05 Failed [5]	Ratio: 1.08 Failed [5]	Ratio: 1.11 Failed [5]	Ratio: 1.15 Failed [5]	Ratio: 1.19 Failed [5]	Ratio: 1.22 Failed [5]	Ratio: 1.27 Failed [5]	Ratio: 1.31 Failed [5]
Hex(454046)	Ratio: 1.02 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.09 Failed [5]	Ratio: 1.12 Failed [5]	Ratio: 1.16 Failed [5]	Ratio: 1.20 Failed [5]	Ratio: 1.24 Failed [5]	Ratio: 1.28 Failed [5]
Hex(4A404D)	Ratio: 1.05 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.09 Failed [5]	Ratio: 1.13 Failed [5]	Ratio: 1.16 Failed [5]	Ratio: 1.21 Failed [5]	Ratio: 1.25 Failed [5]
Hex(4F4053)	Ratio: 1.08 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.13 Failed [5]	Ratio: 1.17 Failed [5]	Ratio: 1.21 Failed [5]
Hex(544059)	Ratio: 1.11 Failed [5]	Ratio: 1.09 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.14 Failed [5]	Ratio: 1.18 Failed [5]
Hex(594060)	Ratio: 1.15 Failed [5]	Ratio: 1.12 Failed [5]	Ratio: 1.09 Failed [5]	Ratio: 1.06 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.14 Failed [5]
Hex(5E4066)	Ratio: 1.19 Failed [5]	Ratio: 1.16 Failed [5]	Ratio: 1.13 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.03 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.11 Failed [5]
Hex(63406C)	Ratio: 1.22 Failed [5]	Ratio: 1.20 Failed [5]	Ratio: 1.16 Failed [5]	Ratio: 1.13 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.03 Failed [5]		Ratio: 1.04 Failed [5]	Ratio: 1.07 Failed [5]
Hex(684073)	Ratio: 1.27 Failed [5]	Ratio: 1.24 Failed [5]	Ratio: 1.21 Failed [5]	Ratio: 1.17 Failed [5]	Ratio: 1.14 Failed [5]	Ratio: 1.10 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.04 Failed [5]		Ratio: 1.04 Failed [5]
Hex(6D4079)	Ratio: 1.31 Failed [5]	Ratio: 1.28 Failed [5]	Ratio: 1.25 Failed [5]	Ratio: 1.21 Failed [5]	Ratio: 1.18 Failed [5]	Ratio: 1.14 Failed [5]	Ratio: 1.11 Failed [5]	Ratio: 1.07 Failed [5]	Ratio: 1.04 Failed [5]	

Details can be found at https://www.w3.org/TR/WCAG20/.
[1] AA
AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.
[2] AA 18pt
AA level for large text above 18pt.
[3] AAA
AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.
[4] AAA 18pt
AAA level for large text above 18pt.
[5] Failed
Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.
[6] Passed
Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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