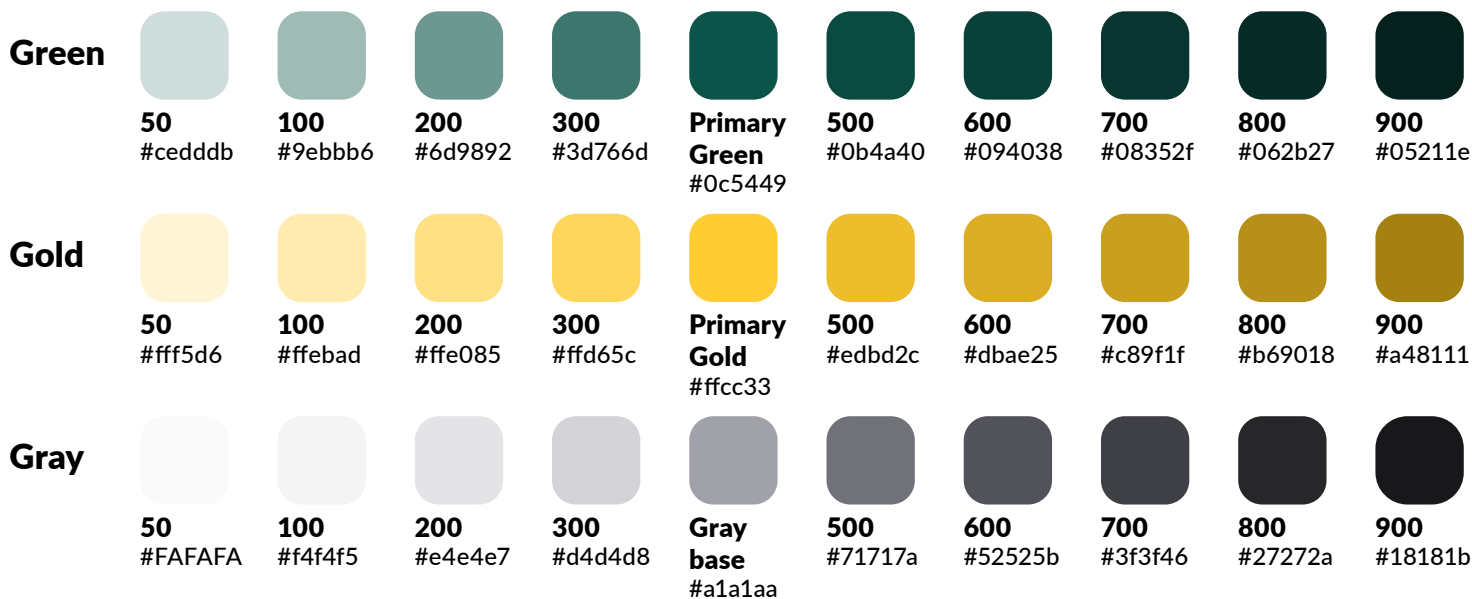


Designing for All:



Contrast, Color, and Universal Accessibility

Contrast and color use are essential prerequisites for accessibility in design. All users, including individuals with disabilities, must be able to perceive content, which encompasses typography and informational graphics. *Universal Design aims to provide accessible solutions that offer the same means of use for all users: identical whenever possible, and equivalent when not* (Cook & Hussey, 2002; The Center for Universal Design, University of North Carolina, 1997). The table below visually communicates good text contrast as defined by the [Web Content Accessibility Guidelines \(WCAG\) 2.1](#). The WSU color branding text combinations shown in the table below ensure sufficient contrast between text and background, making it readable for individuals with moderately low vision. This contrast calculation ensures that even those with color vision deficits will have adequate differentiation between the text and the background. *Avoid using color as the sole means of conveying information or displaying an error message.* Instead, incorporate text or an icon as well. For further inquiries or additional information regarding accessibility in design, please contact us at medcom@med.wayne.edu or visit medcom.med.wayne.edu.



WSU primary green	WSU primary yellow	Base gray	White
White on WSU primary green • 8.8:1 good contrast	Black on WSU primary yellow • 13.6:1 very good contrast	Black on base gray • 8.2:1 good contrast	Black on white • 21:1 best contrast
WSU primary yellow on WSU primary green • 5.9:1 acceptable contrast	WSU primary green on WSU primary yellow • 5.9:1 acceptable contrast	WSU primary green on lighter gray (300) • 6:1 acceptable contrast	WSU primary green on white • 8.8:1 good contrast
Lightest green (50) on WSU primary green • 6.3:1 acceptable contrast	Darker (600) green on WSU primary yellow • 7.7:1 good contrast	Dark green (600) on lighter gray (300) • 7.9:1 good contrast	Dark green (600) on white • 11.7:1 very good contrast
Lightest green (50) on darker green (600) • 8.3:1 good contrast	WSU primary green on lighter yellow (200) • 6.8:1 acceptable contrast	Darker gray (600) on lighter gray (200) • 6.1:1 acceptable contrast	Darker gray (700) on white • 10.4:1 good contrast
Darker green (500) on lightest green (50) • 7.2:1 acceptable contrast	WSU primary green on lightest yellow (50) • 8.1:1 good contrast	Darker gray (800) on lighter gray (300) • 10.1:1 good contrast	Medium green (300) on white • 5.2:1 acceptable contrast

Color contrast ratio value range

21:1	11:1	8:1	7.1:1	4.5:1	4.5:1 and lower
BEST (highest contrast)	VERY GOOD	GOOD	ACCEPTABLE	MINIMUM	INACCESSIBLE RANGE