

# Converting Colors

XYZ(24.3048, 30.9985, 22.9103)

Have a look what the booklet for  
XYZ(24.3048, 30.9985, 22.9103)  
contains.

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# Color

**XYZ(24.3644, 31.0812,  
22.8043)**

# Conversions

Conversions Part 1	
Format	Color
Hex	7BA179
RGB	123, 161, 121
RGB Percent	48%, 63%, 47%
CMY	0.5176, 0.3686, 0.5255
CMYK	0.24, 0.00, 0.25, 0.37
HSL	117°, 18%, 55%
HSV	117°, 25%, 63%
XYZ	24.3644, 31.0812, 22.8043
YIQ	145.0780, -9.8080, -20.4960

# Conversions

## Conversions Part 2

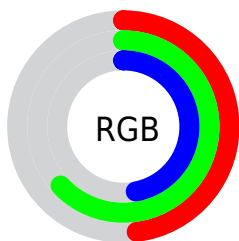
Format	Color
<a href="#">RYB</a>	<a href="#">121, 161, 159</a>
Decimal	<a href="#">8102265</a>
CIELab	<a href="#">62.58, -21.07, 16.70</a>
CIELCh	<a href="#">63, 26.887, 141.593</a>
Yxy	<a href="#">31.0812, 0.3114, 0.3972</a>
Android (android.graphics.Color)	<a href="#">4286292345</a> (0xFF7BA179)
YUV	<a href="#">145.0780, -11.8705, -19.3624</a>
Hunter-Lab	<a href="#">55.7505, -19.5543, 14.7733</a>

# Details

The XYZ color **24.3644, 31.0812, 22.8043** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **27.5700, 23.6199, 36.8259**, and the grayscale version is **26.9956, 28.4015, 30.9292**.

A 20% lighter version of the original color is **50.0032, 61.3590, 48.7432**, and **9.3860, 12.8216, 8.1110** is the 20% darker color. If you saturate the color by 10%, you get **21.4387, 29.6786, 17.9366**, and if you desaturate by 10%, it is **27.7985, 32.7287, 28.5574**.

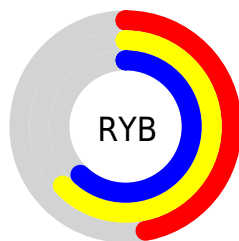
# Distribution



Red (48%)

Green (63%)

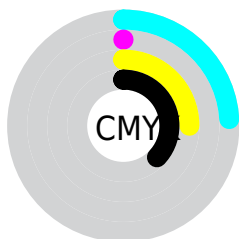
Blue (47%)



Red (47%)

Yellow (63%)

Blue (62%)

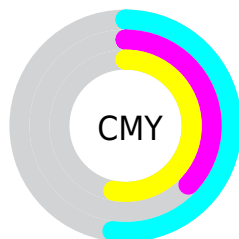


Cyan (24%)

Magenta (0%)

Yellow (25%)

Black (37%)



Cyan (52%)

Magenta (37%)

Yellow (53%)


# Brightness & Saturation


## Gradients

These gradients show how the XYZ color 24.3644, 31.0812, 22.8043 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 24.3644, 31.0812, 22.8043 by changing the saturation by 10% instead.





 24.3644, 31.0812,  
22.8043


 24.3644, 31.0812,  
22.8043


267.0640,  
306.9122, 279.8075


 15.7304, 20.6607,  
14.2451


 50.0746, 61.3679,  
48.9909

 9.4232, 12.8762,  
8.1507


 67.8814, 82.0029,  
67.4554

 5.0775, 7.3434,  
4.1024


 89.4765, 106.8114,  
90.0588

 2.3280, 3.6777,  
1.6817

115.2253,  
136.1780, 117.2196

 0.8090, 1.4950,  
0.3481

145.4931,  
170.4870, 149.3563

 0.0000, 0.2852,  
0.0000


180.6452,


 0.0000, 0.0000,


210.1227, 186.8875


0.0000


221.0471,  
255.4697, 230.2317


 24.3644, 31.0812,  
22.8043

 24.3644, 31.0812,  
22.8043

 21.4387, 29.6786,  
17.9366


 27.7985, 32.7287,  
28.5574

 18.9949, 28.5054,  
13.9083


 31.7609, 34.6277,  
35.2345


 17.0079, 27.5506,  
10.6728


 36.2736, 36.7896,  
42.8745

 15.4492, 26.8007,  
8.1776


 41.3563, 39.2239,  
51.5136


 14.2874, 26.2407,  
6.3643


 47.0281, 41.9397,  
61.1858


 13.4864, 25.8535,  
5.1655


 53.3071, 44.9454,  
71.9238

 13.0035, 25.6188,  
4.4979

 60.2104, 48.2494,  
83.7588

 12.8462, 25.5429,  
4.2532

 67.7547, 51.8595,  
96.7206

 72.0355, 53.9710,  
101.2285

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



27.0275, 31.0812, 18.3514



24.3644, 31.0812, 22.8043



23.1140, 31.0812, 30.9808

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



24.3644, 31.0812, 22.8043



28.5250, 31.0812, 57.9447



36.5784, 31.0812, 26.9554

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



24.3644, 31.0812, 22.8043



27.5700, 23.6199, 36.8259

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



37.0626, 31.0812, 36.8745



24.3644, 31.0812, 22.8043



32.2073, 31.0812, 56.2476

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



24.3644, 31.0812, 22.8043



25.3829, 31.0812, 52.2144



35.4050, 31.0812, 47.9668



34.1317, 31.0812, 20.3810



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



24.3644, 31.0812, 22.8043



23.1717, 31.0812, 38.0549



35.4050, 31.0812, 47.9668



36.9837, 31.0812, 29.9524

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



24.3652, 31.0825, 22.8050



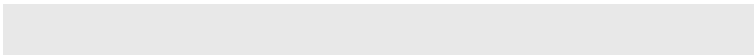
55.1706, 61.1939, 60.2158



30.5487, 33.7555, 22.9950



12.0134, 13.3794, 13.0606



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



24.3652, 31.0825, 22.8050



40.5288, 54.1740, 35.6658



25.2913, 31.4202, 29.1588



7.0168, 7.9111, 7.5373



10.2699, 20.4048, 3.3972



0.2250, 0.4335, 0.0718



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



27.5700, 23.6199, 36.8259



47.3011, 38.3973, 65.3049



26.4944, 23.2358, 29.0762



7.3292, 7.1841, 8.9034



15.6336, 7.4659, 27.5469



0.3384, 0.1620, 0.5793



# Previews

## White Background



This preview shows how the XYZ color 24.3644, 31.0812, 22.8043 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

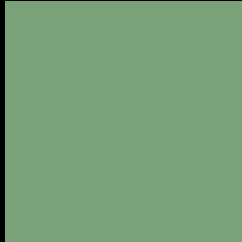
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 24.3644, 31.0812, 22.8043 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

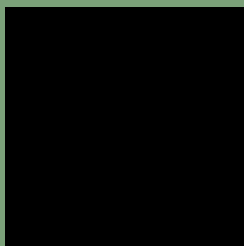
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 24.3644, 31.0812, 22.8043**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.3644, 31.0812, 22.8043.



This preview shows how white text looks on a background with the XYZ color 24.3644, 31.0812,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

24.3644, 31.0812, 22.8043

### Protanopia

28.9169, 30.9712, 20.9770

### Deuteranopia



31.4427, 30.8200, 23.3604






## **Tritanopia**

28.0565, 31.0580, 41.0753

# Trichromacy

	<b>Original Color</b> 24.3644, 31.0812, 22.8043
	<b>Protanomaly</b> 27.0240, 30.9537, 21.6899
	<b>Deuteranomaly</b> 28.3521, 30.6312, 23.1570
	<b>Tritanomaly</b> 26.4641, 30.9051, 33.4246

# Monochromacy

	<b>Original Color</b> 24.3644, 31.0812, 22.8043
	<b>Achromatopsia</b> 26.9133, 28.3149, 30.8349
	<b>Achromatomaly</b> 25.8271, 29.2292, 27.5731

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.3644, 31.0812, 22.8043 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(123, 161, 121)` looks like.

```
.text, #text, p{  
    color:rgb(123, 161, 121)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(123, 161, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 161, 121) }
```

## Border

The CSS property to change the border of an element to XYZ 24.3644, 31.0812, 22.8043 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(123, 161, 121) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(123, 161, 121) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(123, 161, 121) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 161, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 161, 121);  
box-shadow:4px 4px 4px 4px rgb(123, 161,  
121) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.3644, 31.0812, 22.8043 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 161, 121) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(123,  
161, 121) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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