

# Converting Colors

XYZ(24.7740, 38.1847, 21.5622)

Have a look what the booklet for  
XYZ(24.7740, 38.1847, 21.5622)  
contains.

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# Color

**XYZ(24.8438, 38.2173,  
21.6901)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DB971
RGB	93, 185, 113
RGB Percent	36%, 73%, 44%
CMY	0.6353, 0.2745, 0.5569
CMYK	0.50, 0.00, 0.39, 0.27
HSL	133°, 40%, 55%
HSV	133°, 50%, 73%
XYZ	24.8438, 38.2173, 21.6901
YIQ	149.2840, -31.7200, -41.8960

# Conversions

## Conversions Part 2

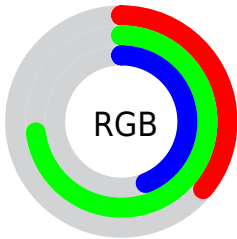
Format	Color
<a href="#">RYB</a>	<a href="#">93, 169, 185</a>
Decimal	<a href="#">6142321</a>
CIELab	<a href="#">68.18, -43.16, 28.33</a>
CIElCh	<a href="#">68, 51.626, 146.714</a>
Yxy	<a href="#">38.2173, 0.2931, 0.4509</a>
Android (android.graphics.Color)	<a href="#">4284332401 (0xFF5DB971)</a>
YUV	<a href="#">149.2840, -17.8880, -49.3611</a>
Hunter-Lab	<a href="#">61.8201, -36.4511, 22.4717</a>

# Details

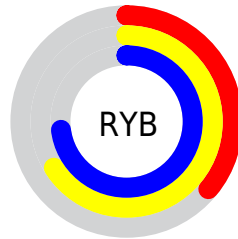
The XYZ color **24.8438, 38.2173, 21.6901** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **30.7146, 20.8604, 38.0061**, and the grayscale version is **28.7701, 30.2684, 32.9623**.

A 20% lighter version of the original color is **50.9381, 72.6104, 46.9278**, and **9.6689, 16.9261, 7.6079** is the 20% darker color. If you saturate the color by 10%, you get **22.4419, 37.0669, 17.6572**, and if you desaturate by 10%, it is **27.8307, 39.6564, 26.4309**.

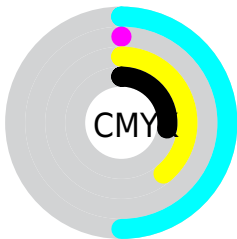
# Distribution



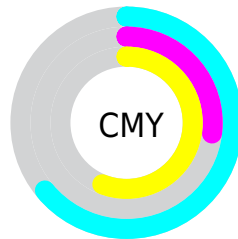
- Red (36%)
- Green (73%)
- Blue (44%)



- Red (36%)
- Yellow (66%)
- Blue (73%)



- Cyan (50%)
- Magenta (0%)
- Yellow (39%)
- Black (27%)




- Cyan (64%)
- Magenta (27%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.8438, 38.2173, 21.6901 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 24.8438, 38.2173, 21.6901 by changing the saturation by 10% instead.




 24.8438, 38.2173,  
21.6901


 24.8438, 38.2173,  
21.6901


269.4212,  
338.5512, 273.8241


 16.0888, 26.1514,  
13.4332


 50.8484, 72.4411,  
47.1289


 9.6783, 16.9369,  
7.5933


 68.8288, 95.3677,  
65.1478

 5.2468, 10.1895,  
3.7518


 90.6150, 122.6834,  
87.2579

 2.4290, 5.5248,  
1.4902

 116.5724,  
154.7725, 113.8777

 0.8596, 2.5583,  
0.2106

147.0664,  
192.0195, 145.4257

 0.0000, 0.9058,  
0.0000

182.4623,

 0.0000, 0.0000,

234.8086, 182.3203

0.0000

223.1254,  
283.5244, 224.9803

■ 24.8438, 38.2173,  
21.6901

■ 24.8438, 38.2173,  
21.6901

■ 22.4419, 37.0669,  
17.6572

■ 27.8307, 39.6564,  
26.4309

■ 20.5826, 36.1809,  
14.2956

■ 31.4353, 41.3971,  
31.9087

■ 19.2226, 35.5387,  
11.5695


■ 35.6914, 43.4574,  
38.1541


■ 18.3099, 35.1145,  
9.4383


■ 40.6293, 45.8522,  
45.1951


■ 17.7494, 34.8600,  
7.8555


■ 46.2775, 48.5958,  
53.0584

 17.7364, 34.8540,  
7.8198

 52.6629, 51.7014,  
61.7695

 59.8109, 55.1816,  
71.3526

 67.7458, 59.0485,  
81.8311

 74.8139, 62.4491,  
93.1490

# Harmonies

## Analogous

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



29.7907, 38.2173, 13.2155



24.8438, 38.2173, 21.6901



22.9398, 38.2173, 39.1185

# Triad

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



24.8438, 38.2173, 21.6901



35.4429, 38.2173, 103.5496



52.0089, 38.2173, 24.6724

# Complementary

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



24.8438, 38.2173, 21.6901



30.7146, 20.8604, 38.0061

# 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.



54.1065, 38.2173, 44.2095



24.8438, 38.2173, 21.6901



43.7497, 38.2173, 95.2142

# Square

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



24.8438, 38.2173, 21.6901



28.4623, 38.2173, 90.8628



50.8881, 38.2173, 71.0488



45.5154, 38.2173, 14.4360



# Rectangle

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



24.8438, 38.2173, 21.6901



23.4064, 38.2173, 55.7336



50.8881, 38.2173, 71.0488



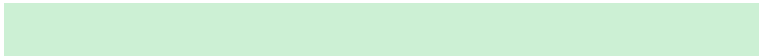
53.2895, 38.2173, 30.1035

# Sweetspot

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



24.8448, 38.2189, 21.6910



67.7322, 79.6764, 73.8069



34.8571, 43.4965, 16.9147



14.2119, 16.9876, 15.3531



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



24.8448, 38.2189, 21.6910



39.7234, 66.1601, 30.8051



28.1165, 39.5276, 38.9195



8.9681, 10.0912, 9.9896



12.0992, 23.7406, 5.4442



0.4498, 0.8462, 0.3147



# Inverse Universe

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



30.7146, 20.8604, 38.0061



51.4440, 31.3921, 63.3028



27.2568, 19.4772, 19.7973



9.2951, 9.1284, 10.9013



17.1198, 8.4217, 19.0493



0.6246, 0.3053, 0.7826



# Previews

## White Background



This preview shows how the XYZ color 24.8438, 38.2173, 21.6901 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 24.8438, 38.2173, 21.6901 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 24.8438, 38.2173, 21.6901**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.8438, 38.2173, 21.6901.



This preview shows how white text looks on a background with the XYZ color 24.8438, 38.2173, 21.6901.



# 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

24.8438, 38.2173, 21.6901

### Protanopia

34.8273, 37.6335, 18.7930

### Deuteranopia

38.3216, 37.5214, 22.6754



## Tritanopia

31.3751, 38.1479, 54.4248

# Trichromacy



## Original Color

24.8438, 38.2173, 21.6901



## Protanomaly

29.6720, 36.8837, 19.7427



## Deuteranomaly

31.5116, 36.6605, 22.2450



## Tritanomaly

28.3506, 37.7919, 39.9827

# Monochromacy



## Original Color

24.8438, 38.2173, 21.6901



## Achromatopsia

28.5667, 30.0544, 32.7292



## Achromatomaly

26.4175, 32.2854, 28.1319

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.8438, 38.2173, 21.6901 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(93, 185, 113)` looks like.

```
.text, #text, p{  
    color:rgb(93, 185, 113)  
}
```

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(93, 185, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 185, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 24.8438, 38.2173, 21.6901 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(93, 185, 113) }
```



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

```
.border{ border-color:rgb(93, 185, 113) }
```

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

Here you see how a box with a 4 pixel rgb(93, 185, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 185, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 185, 113);  
box-shadow:4px 4px 4px 4px rgb(93, 185,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.8438, 38.2173, 21.6901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 185, 113) }
```

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

```
.background{ background-color: rgb(93, 185,  
113) }
```

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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