

# Converting Colors

XYZ(22.8205, 34.4775, 19.9452)

Have a look what the booklet for  
XYZ(22.8205, 34.4775, 19.9452)  
contains.

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# Color

**XYZ(22.7999, 34.4820,  
19.9220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DB06D
RGB	93, 176, 109
RGB Percent	36%, 69%, 43%
CMY	0.6353, 0.3098, 0.5725
CMYK	0.47, 0.00, 0.38, 0.31
HSL	132°, 34%, 53%
HSV	132°, 47%, 69%
XYZ	22.7999, 34.4820, 19.9220
YIQ	143.5450, -27.9610, -38.4330

# Conversions

## Conversions Part 2

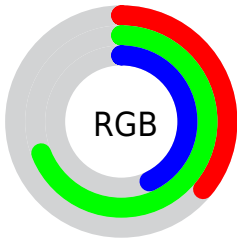
<b>Format</b>	<b>Color</b>
<b>RYB</b>	93, 163, 176
Decimal	6140013
CIELab	65.34, -39.95, 26.71
CIElCh	65, 48.051, 146.236
Yxy	34.4820, 0.2953, 0.4466
Android (android.graphics.Color)	4284330093 (0xFF5DB06D)
YUV	143.5450, -17.0307, -44.3280
Hunter-Lab	58.7214, -33.4558, 20.9901

# Details

The XYZ color **22.7999, 34.4820, 19.9220** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **28.1652, 19.5976, 35.5573**, and the grayscale version is **26.4014, 27.7763, 30.2484**.

A 20% lighter version of the original color is **47.5024, 66.5823, 44.0663**, and **8.6261, 14.8672, 6.6900** is the 20% darker color. If you saturate the color by 10%, you get **20.5154, 33.3866, 16.1405**, and if you desaturate by 10%, it is **25.6198, 35.8411, 24.3754**.

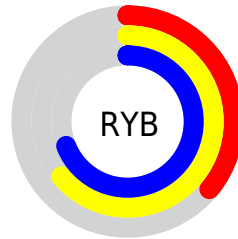
# Distribution



Red (36%)

Green (69%)

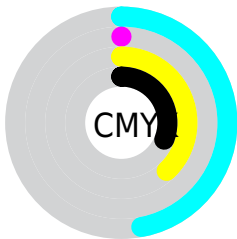
Blue (43%)



Red (36%)

Yellow (64%)

Blue (69%)

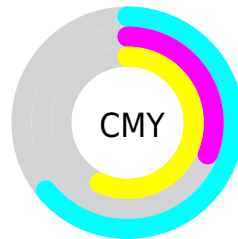


Cyan (47%)

Magenta (0%)

Yellow (38%)

Black (31%)



Cyan (64%)

Magenta (31%)

Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.7999, 34.4820, 19.9220 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 22.7999, 34.4820, 19.9220 by changing the saturation by 10% instead.



■ 22.7999, 34.4820,  
19.9220

■ 22.7999, 34.4820,  
19.9220

259.2501,  
322.2760, 264.0828

■ 14.5657, 23.2641,  
12.1548

■ 47.5336, 66.6825,  
44.1436

■ 8.5995, 14.7887,  
6.7254

■ 64.7639, 88.4340,  
61.4352

■ 4.5359, 8.6712,  
3.2151

■ 85.7235, 114.4654,  
82.7386

■ 2.0095, 4.5273,  
1.2055

■ 110.7779,  
145.1612, 108.4724

■ 0.6393, 1.9727,  
0.0000

140.2924,  
180.9057, 139.0552

■ 0.0000, 0.5915,  
0.0000

174.6324,

■ 0.0000, 0.0000,

222.0835, 174.9055

0.0000

214.1632,  
269.0787, 216.4419

■ 22.7999, 34.4820,  
19.9220

■ 22.7999, 34.4820,  
19.9220

■ 20.5154, 33.3866,  
16.1405

■ 25.6198, 35.8411,  
24.3754

■ 18.7291, 32.5335,  
12.9961

■ 29.0039, 37.4750,  
29.5287

■ 17.4035, 31.9050,  
10.4541


■ 32.9818, 39.3996,  
35.4113


■ 16.4940, 31.4790,  
8.4759


■ 37.5804, 41.6282,  
42.0499


■ 15.9379, 31.2240,  
7.0175


■ 42.8250, 44.1731,  
49.4702

 15.8137, 31.1671,  
6.6904

 48.7395, 47.0461,  
57.6964

 55.3463, 50.2585,  
66.7518

 62.6672, 53.8208,  
76.6588

 70.7226, 57.7433,  
87.4388

# Harmonies

## Analogous

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



27.1710, 34.4820, 12.4780



22.7999, 34.4820, 19.9220



21.0833, 34.4820, 35.0680

# Triad

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



22.7999, 34.4820, 19.9220



31.8974, 34.4820, 90.7177



46.4074, 34.4820, 22.9388

# Complementary

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



22.7999, 34.4820, 19.9220



28.1652, 19.5976, 35.5573

# 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.



48.1423, 34.4820, 40.1360



22.7999, 34.4820, 19.9220



39.0990, 34.4820, 83.8881

# Square

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



22.7999, 34.4820, 19.9220



25.8411, 34.4820, 79.6321



45.3008, 34.4820, 63.3363



40.8480, 34.4820, 13.7336



# Rectangle

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



22.7999, 34.4820, 19.9220



21.4644, 34.4820, 49.4011



45.3008, 34.4820, 63.3363



47.4885, 34.4820, 27.7560

# Sweetspot

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



22.8008, 34.4834, 19.9228



62.1277, 72.5748, 67.5867



32.1568, 39.3973, 16.2658



13.0991, 15.5513, 14.1164



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



22.8008, 34.4834, 19.9228



36.9010, 60.4034, 28.7506



25.5228, 35.5722, 34.2568



8.4537, 9.5160, 9.3829



11.6192, 22.8736, 4.9974



0.3853, 0.7276, 0.2613



# Inverse Universe

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



28.1652, 19.5976, 35.5573



47.8379, 29.9777, 60.5695



25.1667, 18.3982, 19.7675



8.7784, 8.6181, 10.3314



16.7438, 8.2151, 19.6085



0.5449, 0.2657, 0.7120



# Previews

## White Background



This preview shows how the XYZ color 22.7999, 34.4820, 19.9220 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 22.7999, 34.4820, 19.9220 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 22.7999, 34.4820, 19.9220**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.7999, 34.4820, 19.9220.



This preview shows how white text looks on a background with the XYZ color 22.7999, 34.4820,



# 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

22.7999, 34.4820, 19.9220

### Protanopia

31.6384, 34.1837, 17.5010

### Deuteranopia

34.6546, 33.9358, 20.9434



## Tritanopia

28.4659, 34.2248, 48.8218

# Trichromacy



## Original Color

22.7999, 34.4820, 19.9220



## Protanomaly

27.3326, 33.7698, 18.4422



## Deuteranomaly

28.6883, 33.1062, 20.5009



## Tritanomaly

25.8846, 33.9996, 36.2087

# Monochromacy



## Original Color

22.7999, 34.4820, 19.9220



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

24.4426, 29.7756, 25.9317

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.7999, 34.4820, 19.9220 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, 176, 109)` looks like.

```
.text, #text, p{  
    color:rgb(93, 176, 109)  
}
```

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, 176, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 176, 109) }
```

## Border

The CSS property to change the border of an element to XYZ 22.7999, 34.4820, 19.9220 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, 176, 109) }
```



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

```
.border{ border-color:rgb(93, 176, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 176, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 176, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 176, 109);  
box-shadow:4px 4px 4px 4px rgb(93, 176,  
109) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.7999, 34.4820, 19.9220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 176, 109) }
```

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

```
.background{ background-color: rgb(93, 176,  
109) }
```

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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