

# Converting Colors

XYZ(22.7985, 34.7999, 19.6805)

Have a look what the booklet for  
XYZ(22.7985, 34.7999, 19.6805)  
contains.

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# Color

**XYZ(22.7433, 34.7511,  
19.6963)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5BB16C
RGB	91, 177, 108
RGB Percent	36%, 69%, 42%
CMY	0.6431, 0.3059, 0.5765
CMYK	0.49, 0.00, 0.39, 0.31
HSL	132°, 36%, 53%
HSV	132°, 49%, 69%
XYZ	22.7433, 34.7511, 19.6963
YIQ	143.4200, -29.1070, -39.6910

# Conversions

## Conversions Part 2

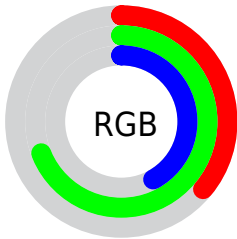
Format	Color
<a href="#">RYB</a>	<a href="#">91, 163, 177</a>
Decimal	<a href="#">6009196</a>
CIELab	<a href="#">65.55, -41.11, 27.50</a>
CIElCh	<a href="#">66, 49.463, 146.222</a>
Yxy	<a href="#">34.7511, 0.2946, 0.4502</a>
Android (android.graphics.Color)	<a href="#">4284199276 (0xFF5BB16C)</a>
YUV	<a href="#">143.4200, -17.4621, -45.9723</a>
Hunter-Lab	<a href="#">58.9501, -34.2962, 21.4552</a>

# Details

The XYZ color **22.7433, 34.7511, 19.6963** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **28.2188, 19.3681, 35.5100**, and the grayscale version is **26.3532, 27.7256, 30.1932**.

A 20% lighter version of the original color is **47.3381, 66.9269, 43.6809**, and **8.6243, 15.0544, 6.5889** is the 20% darker color. If you saturate the color by 10%, you get **20.5047, 33.6784, 15.9627**, and if you desaturate by 10%, it is **25.5183, 36.0881, 24.0992**.

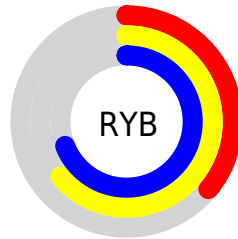
# Distribution



Red (36%)

Green (69%)

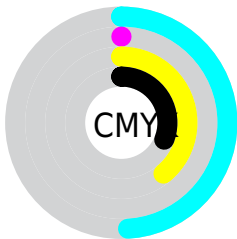
Blue (42%)



Red (36%)

Yellow (64%)

Blue (69%)

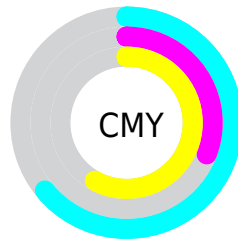


Cyan (49%)

Magenta (0%)

Yellow (39%)

Black (31%)



Cyan (64%)

Magenta (31%)

Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.7433, 34.7511, 19.6963 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 22.7433, 34.7511, 19.6963 by changing the saturation by 10% instead.



■ 22.7433, 34.7511,  
19.6963

■ 22.7433, 34.7511,  
19.6963

258.9638,  
323.4683, 262.8159

■ 14.5237, 23.4712,  
11.9926

■ 47.4412, 67.1000,  
43.7597

■ 8.5699, 14.9418,  
6.6162

■ 64.6503, 88.9378,  
60.9564

■ 4.5166, 8.7786,  
3.1484

■ 85.5866, 115.0637,  
82.1546

■ 1.9983, 4.5970,  
1.1709

■ 110.6155,  
145.8621, 107.7728

■ 0.6330, 2.0128,  
0.0000

140.1023,  
181.7173, 138.2294

■ 0.0000, 0.6149,  
0.0000

174.4124,

■ 0.0000, 0.0000,

223.0139, 173.9431

0.0000

213.9111,  
270.1361, 215.3324

■ 22.7433, 34.7511,  
19.6963

■ 22.7433, 34.7511,  
19.6963

■ 20.5047, 33.6784,  
15.9627

■ 25.5183, 36.0881,  
24.0992

■ 18.7646, 32.8481,  
12.8633

■ 28.8591, 37.7009,  
29.1996

■ 17.4842, 32.2420,  
10.3635


■ 32.7962, 39.6057,  
35.0268

■ 16.6172, 31.8372,  
8.4241

■ 37.3570, 41.8159,  
41.6079


■ 16.0879, 31.5952,  
7.0004


■ 42.5672, 44.3444,  
48.9683

 16.0260, 31.5669,  
6.8377

 48.4511, 47.2030,  
57.1326

 55.0317, 50.4032,  
66.1240

 62.3309, 53.9558,  
75.9649

 70.3696, 57.8712,  
86.6769

# Harmonies

## Analogous

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



27.2443, 34.7511, 12.1316



22.7433, 34.7511, 19.6963



20.9794, 34.7511, 35.2675

# Triad

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



22.7433, 34.7511, 19.6963



32.1197, 34.7511, 93.3040



47.1830, 34.7511, 22.7948

# Complementary

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



22.7433, 34.7511, 19.6963



28.2188, 19.3681, 35.5100

# 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.



48.9870, 34.7511, 40.5305



22.7433, 34.7511, 19.6963



39.5814, 34.7511, 86.1528

# Square

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



22.7433, 34.7511, 19.6963



25.8687, 34.7511, 81.6790



46.0273, 34.7511, 64.6636



41.4039, 34.7511, 13.4063



# Rectangle

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



22.7433, 34.7511, 19.6963



21.3696, 34.7511, 50.1253



46.0273, 34.7511, 64.6636



48.3077, 34.7511, 27.7432

# Sweetspot

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



22.7442, 34.7525, 19.6971



61.3294, 72.1864, 66.5036



32.3568, 39.8026, 15.8751



12.9411, 15.4744, 13.9042



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.



22.7442, 34.7525, 19.6971



36.5794, 60.2464, 28.3423



25.5238, 35.8644, 34.3341



8.4554, 9.5166, 9.3917



11.6287, 22.8775, 5.0476



0.3860, 0.7279, 0.2649



# Inverse Universe

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



28.2188, 19.3681, 35.5100



47.4932, 29.4982, 59.8075



25.1574, 18.1435, 19.3890



8.7766, 8.6174, 10.3220



16.6967, 8.1962, 19.3607



0.5437, 0.2652, 0.7060



# Previews

## White Background



This preview shows how the XYZ color 22.7433, 34.7511, 19.6963 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 22.7433, 34.7511, 19.6963 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 22.7433, 34.7511, 19.6963**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.7433, 34.7511, 19.6963.



This preview shows how white text looks on a background with the XYZ color 22.7433, 34.7511,



# 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

22.7433, 34.7511, 19.6963

### Protanopia

31.5891, 34.1640, 17.2413

### Deuteranopia

35.0045, 34.3627, 20.7073



## Tritanopia

28.6305, 34.5708, 49.4198

# Trichromacy



## Original Color

22.7433, 34.7511, 19.6963



## Protanomaly

27.2815, 33.7494, 18.1731



## Deuteranomaly

28.8064, 33.4319, 20.2640



## Tritanomaly

25.9588, 34.3172, 36.2660

# Monochromacy



## Original Color

22.7433, 34.7511, 19.6963



## Achromatopsia

26.1081, 27.4677, 29.9124



## Achromatomaly

24.0628, 29.3395, 25.5139

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.7433, 34.7511, 19.6963 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(91, 177, 108)` looks like.

```
.text, #text, p{  
    color:rgb(91, 177, 108)  
}
```

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(91, 177, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 177, 108) }
```

## Border

The CSS property to change the border of an element to XYZ 22.7433, 34.7511, 19.6963 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(91, 177, 108) }
```



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

```
.border{ border-color:rgb(91, 177, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(91, 177, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 177, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 177, 108);  
box-shadow:4px 4px 4px 4px rgb(91, 177,  
108) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.7433, 34.7511, 19.6963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 177, 108) }
```

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

```
.background{ background-color: rgb(91, 177,  
108) }
```

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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