

# Converting Colors

XYZ(21.5007, 32.3133, 22.7681)

Have a look what the booklet for  
XYZ(21.5007, 32.3133, 22.7681)  
contains.

<b>XYZ(21.5204, 32.3209, 22.8736)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(21.5204, 32.3209,  
22.8736)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53AB78
RGB	83, 171, 120
RGB Percent	33%, 67%, 47%
CMY	0.6745, 0.3294, 0.5294
CMYK	0.51, 0.00, 0.30, 0.33
HSL	145°, 35%, 50%
HSV	145°, 51%, 67%
XYZ	21.5204, 32.3209, 22.8736
YIQ	138.8740, -36.0770, -34.5170

# Conversions

## Conversions Part 2

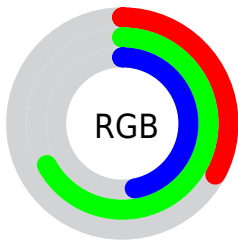
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 145, 171
Decimal	5483384
CIELab	63.61, -38.39, 18.36
CIElCh	64, 42.552, 154.437
Yxy	32.3209, 0.2805, 0.4213
Android (android.graphics.Color)	4283673464 (0xFF53AB78)
YUV	138.8740, -9.3049, -49.0015
Hunter-Lab	56.8515, -31.9212, 15.9413

# Details

The XYZ color **21.5204, 32.3209, 22.8736** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **24.1921, 16.5665, 24.4783**, and the grayscale version is **24.5375, 25.8153, 28.1129**.

A 20% lighter version of the original color is **45.3967, 63.3200, 48.8591**, and **7.9466, 13.5824, 8.1641** is the 20% darker color. If you saturate the color by 10%, you get **19.6231, 31.4096, 19.8063**, and if you desaturate by 10%, it is **23.8538, 33.4515, 26.2878**.

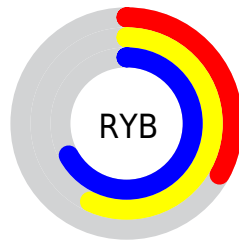
# Distribution



Red (33%)

Green (67%)

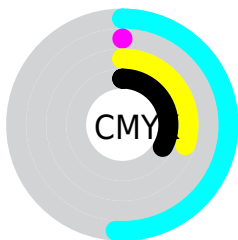
Blue (47%)



Red (33%)

Yellow (57%)

Blue (67%)

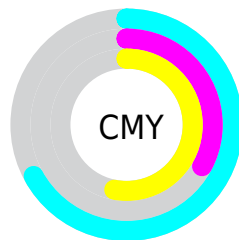


Cyan (51%)

Magenta (0%)

Yellow (30%)

Black (33%)



Cyan (67%)

Magenta (33%)


Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.5204, 32.3209, 22.8736 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 21.5204, 32.3209, 22.8736 by changing the saturation by 10% instead.





 21.5204, 32.3209,  
22.8736


 21.5204, 32.3209,  
22.8736


252.7111,  
312.5785, 280.1760


 13.6195, 21.6067,  
14.2958


 45.4368, 63.3138,  
49.1063


 7.9365, 13.5682,  
8.1856


 62.1831, 84.3614,  
67.5982

 4.1058, 7.8210,  
4.1245


 82.6085, 109.6221,  
90.2319

 1.7622, 3.9806,  
1.6939

 107.0785,  
139.4805, 117.4259

 0.4947, 1.6627,  
0.3565

135.9584,  
174.3210, 149.5988

 0.0000, 0.3993,  
0.0000

169.6136,

 0.0000, 0.0000,

214.5279, 187.1690

0.0000

208.4093,  
260.4856, 230.5553

■ 21.5204, 32.3209,  
22.8736

■ 21.5204, 32.3209,  
22.8736

■ 19.6231, 31.4096,  
19.8063

■ 23.8538, 33.4515,  
26.2878

■ 18.1296, 30.6987,  
17.0723

■ 26.6475, 34.8112,  
30.0573

■ 17.0069, 30.1721,  
14.6606

■ 29.9270, 36.4137,  
34.1930

■ 16.2153, 29.8098,  
12.5584

■ 33.7151, 38.2706,  
38.7047

■ 15.7298, 29.5935,  
10.9964

■ 38.0331, 40.3927,  
43.6017

■ 42.9010, 42.7901,  
48.8932

■ 48.3379, 45.4725,  
54.5877

■ 54.3618, 48.4491,  
60.6939

■ 60.9900, 51.7284,  
67.2197

# Harmonies

## Analogous

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



24.6997, 32.3209, 14.5112



21.5204, 32.3209, 22.8736



20.6763, 32.3209, 37.7855

# Triad

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



21.5204, 32.3209, 22.8736



31.6128, 32.3209, 78.9509



41.1428, 32.3209, 19.7379

# Complementary

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



21.5204, 32.3209, 22.8736



24.1921, 16.5665, 24.4783

# 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.



43.5814, 32.3209, 32.7200



21.5204, 32.3209, 22.8736



37.6469, 32.3209, 69.6775

# Square

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



21.5204, 32.3209, 22.8736



26.0477, 32.3209, 73.7470



42.2265, 32.3209, 51.2891



35.9202, 32.3209, 13.1530



# Rectangle

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



21.5204, 32.3209, 22.8736



21.4456, 32.3209, 50.5436



42.2265, 32.3209, 51.2891



42.3439, 32.3209, 23.3137

# Sweetspot

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



21.5213, 32.3222, 22.8743



57.6894, 67.2182, 66.1616



26.0101, 34.8476, 13.5395



12.5546, 14.8378, 14.3849



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



21.5213, 32.3222, 22.8743



34.6573, 56.0187, 34.6299



24.8020, 33.6345, 40.1507



8.0390, 8.9931, 9.2302



11.8827, 22.3183, 8.4218



0.3583, 0.6320, 0.3802



# Inverse Universe

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



24.1921, 16.5665, 24.4783



39.9748, 24.5747, 37.7676



21.7485, 15.5891, 11.6107



8.1925, 8.0902, 9.3245



14.3889, 7.2181, 9.6934



0.4268, 0.2114, 0.4093



# Previews

## White Background



This preview shows how the XYZ color 21.5204, 32.3209, 22.8736 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 21.5204, 32.3209, 22.8736 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 21.5204, 32.3209, 22.8736**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.5204, 32.3209, 22.8736.



This preview shows how white text looks on a background with the XYZ color 21.5204, 32.3209,



# 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

21.5204, 32.3209, 22.8736

### Protanopia

29.6257, 31.8448, 19.9145

### Deuteranopia

32.4955, 31.8131, 23.8299



## Tritanopia

26.2483, 32.3219, 46.4503

# Trichromacy



## Original Color

21.5204, 32.3209, 22.8736

## Protanomaly

25.6570, 31.5303, 20.9533

## Deuteranomaly

26.7913, 31.0466, 23.3194

## Tritanomaly

24.3337, 32.3649, 36.4170

# Monochromacy



## Original Color

21.5204, 32.3209, 22.8736

## Achromatopsia

24.5403, 25.8183, 28.1161

## Achromatomaly

22.8392, 27.7211, 25.9767

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.5204, 32.3209, 22.8736 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(83, 171, 120)` looks like.

```
.text, #text, p{  
    color:rgb(83, 171, 120)  
}
```

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(83, 171, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 171, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 21.5204, 32.3209, 22.8736 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(83, 171, 120) }
```



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

```
.border{ border-color:rgb(83, 171, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 171, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 171, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 171, 120);  
box-shadow:4px 4px 4px 4px rgb(83, 171,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.5204, 32.3209, 22.8736 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 171, 120) }
```

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

```
.background{ background-color: rgb(83, 171,  
120) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor