

# Converting Colors

XYZ(20.0817, 23.6041, 22.6203)

Have a look what the booklet for  
XYZ(20.0817, 23.6041, 22.6203)  
contains.

<b>XYZ(20.0732, 23.6335, 22.5725)</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(20.0732, 23.6335,  
22.5725)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	748B7C
RGB	116, 139, 124
RGB Percent	45%, 55%, 49%
CMY	0.5451, 0.4549, 0.5137
CMYK	0.17, 0.00, 0.11, 0.45
HSL	141°, 9%, 50%
HSV	141°, 17%, 55%
XYZ	20.0732, 23.6335, 22.5725
YIQ	130.4130, -8.8930, -9.5410

# Conversions

## Conversions Part 2

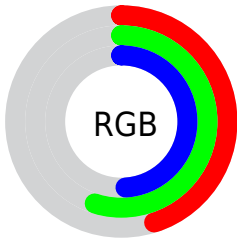
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 133, 139
Decimal	7637884
CIE Lab	55.72, -11.38, 5.28
CIE LCh	56, 12.544, 155.082
Yxy	23.6335, 0.3029, 0.3566
Android (android.graphics.Color)	4285827964 (0xFF748B7C)
YUV	130.4130, -3.1616, -12.6402
Hunter-Lab	48.6143, -11.3711, 6.5006

# Details

The XYZ color **20.0732, 23.6335, 22.5725** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **20.9905, 19.6191, 24.1545**, and the grayscale version is **21.3781, 22.4914, 24.4932**.

A 20% lighter version of the original color is **43.0549, 49.5993, 48.3787**, and **7.2263, 8.8817, 7.9901** is the 20% darker color. If you saturate the color by 10%, you get **17.8148, 22.5331, 19.6105**, and if you desaturate by 10%, it is **22.6622, 24.8995, 25.8262**.

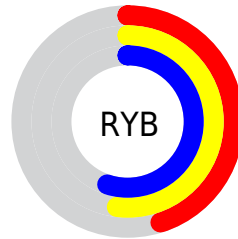
# Distribution



Red (45%)

Green (55%)

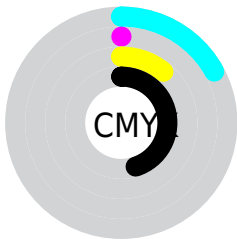
Blue (49%)



Red (45%)

Yellow (52%)

Blue (55%)

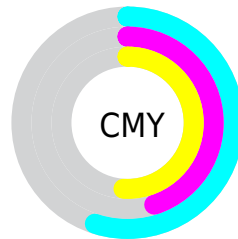


Cyan (17%)

Magenta (0%)

Yellow (11%)

Black (45%)



Cyan (55%)

Magenta (45%)

Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0732, 23.6335, 22.5725 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 20.0732, 23.6335, 22.5725 by changing the saturation by 10% instead.



■ 20.0732, 23.6335,  
22.5725

■ 20.0732, 23.6335,  
22.5725

245.1371,  
270.9623, 278.5720

■ 12.5568, 15.0620,  
14.0758

■ 43.0429, 49.4315,  
48.6047

■ 7.1990, 8.8629,  
8.0341

■ 59.2269, 67.4267,  
66.9773

■ 3.6343, 4.6519,  
4.0287

■ 79.0309, 89.3319,  
89.4789

■ 1.4974, 2.0445,  
1.6411

102.8201,  
115.5316, 116.5282

■ 0.3241, 0.6331,  
0.3199

130.9600,  
146.4101, 148.5436

■ 0.0000, 0.0000,  
0.0000

163.8159,

182.3517, 185.9436

201.7532,  
223.7410, 229.1469

■ 20.0732, 23.6335,  
22.5725

■ 20.0732, 23.6335,  
22.5725

■ 17.8148, 22.5331,  
19.6105

■ 22.6622, 24.8995,  
25.8262

■ 15.8713, 21.5885,  
16.9305

■ 25.5926, 26.3346,  
29.3778

■ 14.2288, 20.7933,  
14.5248

■ 28.8772, 27.9459,  
33.2350

■ 12.8714, 20.1395,  
12.3845

■ 32.5276, 29.7392,  
37.4052

■ 11.7818, 19.6184,  
10.5003

■ 36.5547, 31.7201,  
41.8951

■ 10.9406, 19.2201,  
8.8624

■ 40.9692, 33.8938,  
46.7115

■ 10.3257, 18.9336,  
7.4604

■ 45.7810, 36.2654,  
51.8609

■ 9.9012, 18.7403,  
6.2823

■ 51.0001, 38.8398,  
57.3495

■ 9.7737, 18.6824,  
5.9245

■ 56.6356, 41.6218,  
63.1835

# Harmonies

## Analogous

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



20.9277, 23.6335, 19.8417



20.0732, 23.6335, 22.5725



19.8479, 23.6335, 26.4329

# Triad

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



20.0732, 23.6335, 22.5725



22.7060, 23.6335, 34.3479



24.7757, 23.6335, 21.4892

# Complementary

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



20.0732, 23.6335, 22.5725



20.9905, 19.6191, 24.1545

# 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.



25.2982, 23.6335, 25.0453



20.0732, 23.6335, 22.5725



24.0715, 23.6335, 32.6880

# Square

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



20.0732, 23.6335, 22.5725



21.3305, 23.6335, 33.5085



25.0352, 23.6335, 29.1752



23.6348, 23.6335, 19.2641



# Rectangle

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



20.0732, 23.6335, 22.5725



20.0763, 23.6335, 29.1975



25.0352, 23.6335, 29.1752



25.0316, 23.6335, 22.5538

# Sweetspot

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



20.0739, 23.6345, 22.5730



41.2990, 44.9393, 47.1301



21.7977, 24.5793, 20.1188



9.4446, 10.3200, 10.7719



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



20.0739, 23.6345, 22.5730



34.3058, 41.5225, 38.2991



20.8208, 23.9333, 26.5065



5.0390, 5.6351, 5.7264



8.8283, 16.8639, 5.3866



0.0651, 0.1146, 0.0696



# Inverse Universe

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



20.9905, 19.6191, 24.1545



36.2793, 32.8759, 41.7028



20.2737, 19.3324, 20.3798



5.1612, 5.0999, 5.9373



11.3091, 5.6338, 9.3980



0.0821, 0.0402, 0.0990



# Previews

## White Background



This preview shows how the XYZ color 20.0732, 23.6335, 22.5725 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 20.0732, 23.6335, 22.5725 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 × Fail

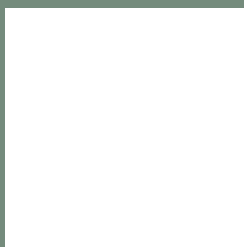
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 20.0732, 23.6335, 22.5725**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.0732, 23.6335, 22.5725.



This preview shows how white text looks on a background with the XYZ color 20.0732, 23.6335,



# 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

20.0732, 23.6335, 22.5725

### Protanopia

22.4862, 23.6445, 21.4679

### Deuteranopia

24.0106, 23.5964, 23.0277



## Tritanopia

21.8163, 23.7080, 31.0300

# Trichromacy



## Original Color

20.0732, 23.6335, 22.5725

## Protanomaly

21.5369, 23.5584, 21.8245

## Deuteranomaly

22.4057, 23.5741, 22.7714

## Tritanomaly

21.2136, 23.6773, 27.8782

# Monochromacy



## Original Color

20.0732, 23.6335, 22.5725

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

20.7413, 22.6935, 23.7092

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.0732, 23.6335, 22.5725 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(116, 139, 124)` looks like.

```
.text, #text, p{  
    color:rgb(116, 139, 124)  
}
```

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(116, 139, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 139, 124) }
```

## Border

The CSS property to change the border of an element to XYZ 20.0732, 23.6335, 22.5725 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(116, 139, 124) }
```



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

```
.border{ border-color:rgb(116, 139, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 139, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 139, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 139, 124);  
box-shadow:4px 4px 4px 4px rgb(116, 139,  
124) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.0732, 23.6335, 22.5725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 139, 124) }
```

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

```
.background{ background-color: rgb(116,  
139, 124) }
```

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