

# Converting Colors

XYZ(22.7707, 27.4422, 62.6664)

Have a look what the booklet for  
XYZ(22.7707, 27.4422, 62.6664)  
contains.

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# Color

**XYZ(22.6834, 27.3169,  
62.4697)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0C99CE
RGB	12, 153, 206
RGB Percent	5%, 60%, 81%
CMY	0.9528, 0.4000, 0.1922
CMYK	0.94, 0.26, 0.00, 0.19
HSL	196°, 89%, 43%
HSV	196°, 94%, 81%
XYZ	22.6834, 27.3169, 62.4697
YIQ	116.8830, -101.0490, -13.4090

# Conversions

## Conversions Part 2

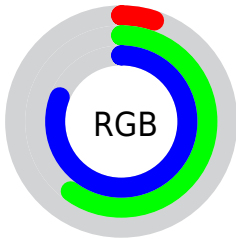
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	12, 94, 206
Decimal	825806
CIE <sub>Lab</sub>	59.27, -14.28, -36.42
CIE <sub>LCh</sub>	59, 39.119, 248.585
Yxy	27.3169, 0.2017, 0.2429
Android (android.graphics.Color)	4279015886 (0xFF0C99CE)
YUV	116.8830, 43.9347, -91.9824
Hunter-Lab	52.2656, -13.9953, -34.2797

# Details

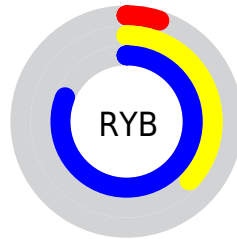
The XYZ color **22.6834, 27.3169, 62.4697** is a dark color, and the websafe version is hex **0099CC**. The color can be described as dark washed azure. A complement of this color would be **27.4128, 16.9333, 2.1726**, and the grayscale version is **16.7669, 17.6401, 19.2100**.

A 20% lighter version of the original color is **45.9563, 54.7292, 102.7494**, and **10.3373, 11.7371, 30.9988** is the 20% darker color. If you saturate the color by 10%, you get **22.0013, 26.1775, 62.2863**, and if you desaturate by 10%, it is **24.0911, 29.4431, 62.8065**.

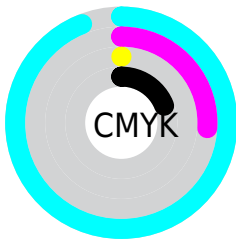
# Distribution



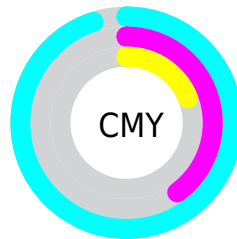
- Red (5%)
- Green (60%)
- Blue (81%)



- Red (5%)
- Yellow (37%)
- Blue (81%)



- Cyan (94%)
- Magenta (26%)
- Yellow (0%)
- Black (19%)



- Cyan (95%)
- Magenta (40%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.6834, 27.3169, 62.4697 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 22.6834, 27.3169, 62.4697 by changing the saturation by 10% instead.



■ 22.6834, 27.3169,  
62.4697

■ 22.6834, 27.3169,  
62.4697

258.6605,  
289.1882, 451.6972

■ 14.4793, 17.8114,  
44.9741

■ 47.3434, 55.3920,  
109.9823

■ 8.5387, 10.8146,  
31.0942

■ 64.5301, 74.7303,  
140.8363

■ 4.4962, 5.9423,  
20.4115

■ 85.4417, 98.1150,  
176.9802

■ 1.9865, 2.8100,  
12.5075

■ 110.4435,  
125.9305, 218.8326

■ 0.6264, 1.0334,  
6.9636

■ 139.9009,  
158.5612, 266.8119

■ 0.0000, 0.0000,  
3.3612

174.1793,

■ 0.0000, 0.0000,

196.3914, 321.3368

1.2819

213.6441,  
239.8057, 382.8257

■ 0.0000, 0.0000,  
0.0469

■ 0.0000, 0.0000,  
0.0000

■ 22.6834, 27.3169,  
62.4697

■ 22.6834, 27.3169,  
62.4697

■ 22.0013, 26.1775,  
62.2863

■ 24.0911, 29.4431,  
62.8065

■ 25.9433, 31.8635,  
63.1760

■ 28.3060, 34.6133,  
63.5823

■ 31.2326, 37.7208,  
64.0278

■ 34.7694, 41.2108,  
64.5151

■ 38.9578, 45.1053,  
65.0460

■ 43.8353, 49.4246,  
65.6227

■ 49.4366, 54.1872,  
66.2467

■ 55.7938, 59.4105,  
66.9199

# Harmonies

## Analogous

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



19.2925, 27.3169, 49.8709



22.6834, 27.3169, 62.4697



27.3913, 27.3169, 65.0559

# Triad

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



22.6834, 27.3169, 62.4697



36.4021, 27.3169, 25.9061



20.5357, 27.3169, 13.2828

# Complementary

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



22.6834, 27.3169, 62.4697



27.4128, 16.9333, 2.1726

# 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.



24.5869, 27.3169, 10.2866



22.6834, 27.3169, 62.4697



34.0193, 27.3169, 15.9239

# Square

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



22.6834, 27.3169, 62.4697



35.7259, 27.3169, 40.6852



29.5463, 27.3169, 11.0723



18.1650, 27.3169, 20.9636



# Rectangle

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



22.6834, 27.3169, 62.4697



30.7219, 27.3169, 60.1670



29.5463, 27.3169, 11.0723



21.7244, 27.3169, 11.8244

# Sweetspot

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



22.6844, 27.3178, 62.4704



67.5705, 77.0590, 105.9203



23.1423, 44.5889, 12.2016



13.7387, 15.8485, 22.5849



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

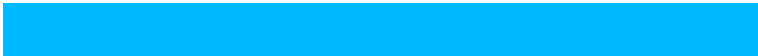


# Same Dimension

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



22.6844, 27.3178, 62.4704



35.4667, 42.0535, 100.8556



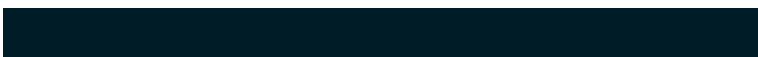
12.7706, 7.4902, 59.1658



11.2740, 12.1884, 14.3288



13.6320, 16.2879, 38.3817



0.7644, 0.9625, 2.0004



# Inverse Universe

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



31.3357, 15.6858, 31.5139



50.0312, 24.7765, 48.2236



38.2204, 38.5484, 5.7752



11.5517, 11.3494, 13.4396



19.0917, 9.4473, 18.7334



1.0158, 0.4997, 1.1289



# Previews

## White Background



This preview shows how the XYZ color 22.6834, 27.3169, 62.4697 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 22.6834, 27.3169, 62.4697 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 22.6834, 27.3169, 62.4697**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.6834, 27.3169, 62.4697.



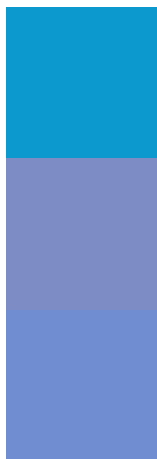
This preview shows how white text looks on a background with the XYZ color 22.6834, 27.3169,



# 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

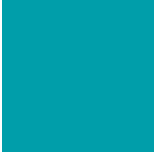
22.6834, 27.3169, 62.4697

### Protanopia

27.7993, 27.1017, 55.9905

### Deuteranopia

27.8436, 27.1639, 64.0972



## **Tritanopia**

19.4826, 27.3560, 42.2836

# Trichromacy



## Original Color

22.6834, 27.3169, 62.4697



## Protanomaly

24.2069, 26.3057, 58.4453



## Deuteranomaly

24.4911, 26.3414, 63.4681



## Tritanomaly

20.4858, 27.2216, 48.9743

# Monochromacy



## Original Color

22.6834, 27.3169, 62.4697



## Achromatopsia

16.9083, 17.7888, 19.3720



## Achromatomaly

16.6319, 19.7975, 31.3785

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.6834, 27.3169, 62.4697 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(12, 153, 206)` looks like.

```
.text, #text, p{  
    color:rgb(12, 153, 206)  
}
```

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(12, 153, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 153, 206) }
```

## Border

The CSS property to change the border of an element to XYZ 22.6834, 27.3169, 62.4697 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(12, 153, 206) }
```



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

```
.border{ border-color:rgb(12, 153, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 153, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 153, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 153, 206);  
box-shadow:4px 4px 4px 4px rgb(12, 153,  
206) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.6834, 27.3169, 62.4697 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 153, 206) }
```

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

```
.background{ background-color: rgb(12, 153,  
206) }
```

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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