

# Converting Colors

XYZ(22.7213, 31.0984, 40.7615)

Have a look what the booklet for  
XYZ(22.7213, 31.0984, 40.7615)  
contains.

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# Color

**XYZ(22.7659, 31.1839,  
40.8956)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42A6A6
RGB	66, 166, 166
RGB Percent	26%, 65%, 65%
CMY	0.7412, 0.3490, 0.3490
CMYK	0.60, 0.00, 0.00, 0.35
HSL	180°, 43%, 45%
HSV	180°, 60%, 65%
XYZ	22.7659, 31.1839, 40.8956
YIQ	136.1000, -59.6000, -21.2000

# Conversions

## Conversions Part 2

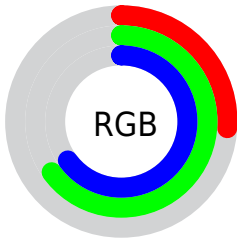
Format	Color
R <sub>YB</sub>	66, 116, 166
Decimal	4368038
CIE Lab	62.66, -28.55, -8.68
CIE LCh	63, 29.835, 196.905
Yxy	31.1839, 0.2400, 0.3288
Android (android.graphics.Color)	4282558118 (0xFF42A6A6)
YUV	136.1000, 14.7407, -61.4777
Hunter-Lab	55.8425, -24.9535, -4.3305

# Details

The XYZ color **22.7659, 31.1839, 40.8956** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **18.6585, 12.3977, 6.5648**, and the grayscale version is **23.4026, 24.6214, 26.8127**.

A 20% lighter version of the original color is **47.3650, 61.2933, 77.7410**, and **9.0546, 13.2495, 17.9998** is the 20% darker color. If you saturate the color by 10%, you get **21.8060, 30.6897, 40.8512**, and if you desaturate by 10%, it is **24.0523, 31.8478, 40.9566**.

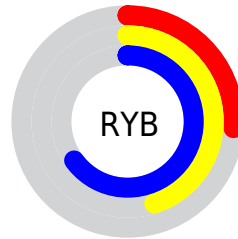
# Distribution



Red (26%)

Green (65%)

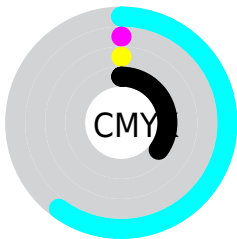
Blue (65%)



Red (26%)

Yellow (45%)

Blue (65%)

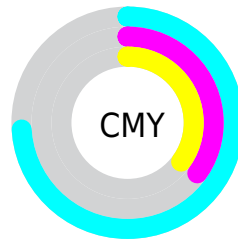


Cyan (60%)

Magenta (0%)

Yellow (0%)

Black (35%)



Cyan (74%)

Magenta (35%)

Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.7659, 31.1839, 40.8956 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 22.7659, 31.1839, 40.8956 by changing the saturation by 10% instead.



■ 22.7659, 31.1839,  
40.8956

■ 22.7659, 31.1839,  
40.8956

259.0782,  
307.3846, 365.5478

■ 14.5405, 20.7389,  
27.9184

■ 47.4781, 61.5295,  
77.7773

■ 8.5817, 12.9333,  
18.0257

■ 64.6957, 82.1989,  
102.5190

■ 4.5243, 7.3826,  
10.7988

■ 85.6413, 107.0452,  
132.0192

■ 2.0028, 3.7025,  
5.8192

■ 110.6804,  
136.4529, 166.6965

■ 0.6355, 1.5086,  
2.6685

■ 140.1782,  
170.8063, 206.9695

■ 0.0000, 0.2948,  
0.9275

174.5003,

■ 0.0000, 0.0000,

210.4897, 253.2567

0.0000

214.0118,  
255.8877, 305.9766

■ 22.7659, 31.1839,  
40.8956

■ 22.7659, 31.1839,  
40.8956

■ 21.8060, 30.6897,  
40.8512

■ 24.0523, 31.8478,  
40.9566

■ 21.1407, 30.3468,  
40.8200

■ 25.6878, 32.6909,  
41.0333

■ 20.7369, 30.1386,  
40.8009

■ 27.6964, 33.7264,  
41.1274

■ 20.5197, 30.0266,  
40.7906

■ 30.0991, 34.9650,  
41.2400

■ 32.9154, 36.4168,  
41.3720

■ 36.1634, 38.0912,  
41.5241

■ 39.8601, 39.9970,  
41.6972

■ 44.0219, 42.1424,  
41.8921

■ 48.6640, 44.5355,  
42.1095

# Harmonies

## Analogous

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



22.6532, 31.1839, 29.1260



22.7659, 31.1839, 40.8956



24.6088, 31.1839, 53.0858

# Triad

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



22.7659, 31.1839, 40.8956



35.7277, 31.1839, 51.6792



31.4476, 31.1839, 16.4712

# Complementary

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



22.7659, 31.1839, 40.8956



18.6585, 12.3977, 6.5648

# 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.



35.3127, 31.1839, 20.0790



22.7659, 31.1839, 40.8956



37.9318, 31.1839, 39.2879

# Square

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



22.7659, 31.1839, 40.8956



31.9732, 31.1839, 60.2224



37.7733, 31.1839, 27.8460



27.4219, 31.1839, 16.7104



# Rectangle

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



22.7659, 31.1839, 40.8956



26.6750, 31.1839, 59.0180



37.7733, 31.1839, 27.8460



32.8155, 31.1839, 17.2316

# Sweetspot

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



22.7668, 31.1851, 40.8963



55.5396, 63.9273, 74.8868



16.9812, 28.8840, 9.8351



12.1280, 14.1507, 16.7442



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



22.7668, 31.1851, 40.8963



39.1454, 55.4758, 74.1182



15.5699, 16.7910, 38.4981



7.7476, 8.5321, 9.6568



15.9114, 23.2833, 31.6300



0.3871, 0.5665, 0.7696



# Inverse Universe

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



18.6585, 12.3977, 6.5648



31.0273, 18.3515, 6.2785



22.7654, 20.6115, 7.9335



7.5311, 7.5423, 7.8482



12.1947, 6.2866, 0.5708

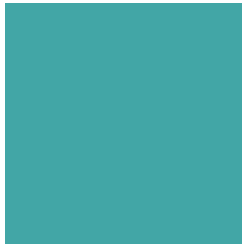


0.2967, 0.1530, 0.0139



# Previews

## White Background



This preview shows how the XYZ color 22.7659, 31.1839, 40.8956 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 22.7659, 31.1839, 40.8956 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

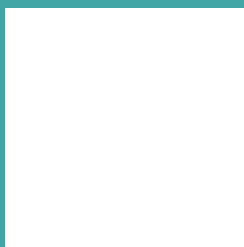
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.7659, 31.1839, 40.8956**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.7659, 31.1839, 40.8956.



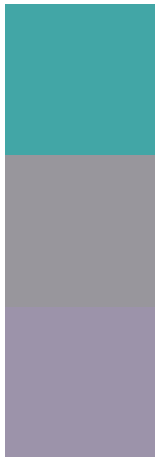
This preview shows how white text looks on a background with the XYZ color 22.7659, 31.1839,



# 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

22.7659, 31.1839, 40.8956

### Protanopia

29.8560, 30.8884, 35.8410

### Deuteranopia

31.3997, 30.8376, 42.3275



## Tritanopia

23.9099, 31.1049, 46.8631

# Trichromacy



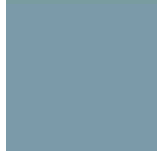
## Original Color

22.7659, 31.1839, 40.8956



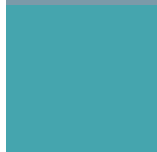
## Protanomaly

26.1188, 30.3799, 37.7450



## Deuteranomaly

26.8854, 30.1867, 41.9457



## Tritanomaly

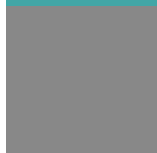
23.5494, 31.2315, 44.8315

# Monochromacy



## Original Color

22.7659, 31.1839, 40.8956



## Achromatopsia

23.4014, 24.6201, 26.8113



## Achromatomaly

22.2557, 26.3535, 31.5175

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.7659, 31.1839, 40.8956 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(66, 166, 166)` looks like.

```
.text, #text, p{  
    color:rgb(66, 166, 166)  
}
```

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(66, 166, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 166, 166) }
```

## Border

The CSS property to change the border of an element to XYZ 22.7659, 31.1839, 40.8956 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(66, 166, 166) }
```



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

```
.border{ border-color:rgb(66, 166, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 166, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 166, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 166, 166);  
box-shadow:4px 4px 4px 4px rgb(66, 166,  
166) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.7659, 31.1839, 40.8956 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 166, 166) }
```

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

```
.background{ background-color: rgb(66, 166,  
166) }
```

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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