

# Converting Colors

XYZ(27.6422, 31.0627, 51.3811)

Have a look what the booklet for  
XYZ(27.6422, 31.0627, 51.3811)  
contains.

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# Color

**XYZ(27.7087, 31.1465,  
51.5652)**

# Conversions

## Conversions Part 1

Format	Color
Hex	709DBB
RGB	112, 157, 187
RGB Percent	44%, 62%, 73%
CMY	0.5608, 0.3843, 0.2667
CMYK	0.40, 0.16, 0.00, 0.27
HSL	204°, 36%, 59%
HSV	204°, 40%, 73%
XYZ	27.7087, 31.1465, 51.5652
YIQ	146.9650, -36.4500, -0.2100

# Conversions

## Conversions Part 2

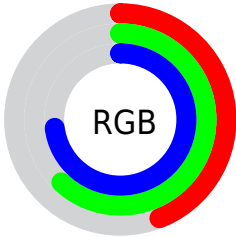
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	112, 140, 187
Decimal	7380411
CIE Lab	62.63, -7.39, -20.32
CIE LCh	63, 21.626, 250.012
Yxy	31.1465, 0.2509, 0.2821
Android (android.graphics.Color)	4285570491 (0xFF709DBB)
YUV	146.9650, 19.7373, -30.6643
Hunter-Lab	55.8090, -9.0422, -15.7151

# Details

The XYZ color **27.7087, 31.1465, 51.5652** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **33.0919, 31.0814, 19.5854**, and the grayscale version is **27.6513, 29.0913, 31.6805**.

A 20% lighter version of the original color is **55.4470, 61.6650, 93.7742**, and **11.2607, 12.9591, 24.4621** is the 20% darker color. If you saturate the color by 10%, you get **24.3451, 27.5916, 51.0569**, and if you desaturate by 10%, it is **31.6459, 35.1135, 52.1239**.

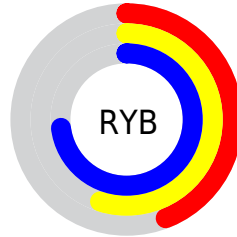
# Distribution



Red (44%)

Green (62%)

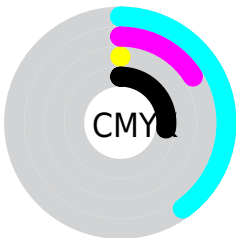
Blue (73%)



Red (44%)

Yellow (55%)

Blue (73%)

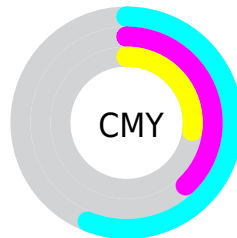


Cyan (40%)

Magenta (16%)

Yellow (0%)

Black (27%)



Cyan (56%)

Magenta (38%)

Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.7087, 31.1465, 51.5652 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 27.7087, 31.1465, 51.5652 by changing the saturation by 10% instead.



■ 27.7087, 31.1465,  
51.5652

■ 27.7087, 31.1465,  
51.5652

283.1777,  
307.2127, 409.6648

■ 18.2455, 20.7104,  
36.2788

■ 55.4309, 61.4706,  
93.9097

■ 11.2272, 12.9125,  
24.3582

■ 74.4207, 82.1275,  
121.8049

■ 6.2883, 7.3683,  
15.3849

■ 97.3167, 106.9601,  
154.7401

■ 3.0635, 3.6935,  
8.9403

124.4843,  
136.3528, 193.1338

■ 1.1874, 1.5036,  
4.6060

156.2888,  
170.6900, 237.4046

■ 0.0964, 0.2913,  
1.9633

193.0957,

■ 0.0000, 0.0000,

210.3561, 287.9710

0.5326

235.2702,  
255.7356, 345.2516

■ 0.0000, 0.0000,  
0.0000

■ 27.7087, 31.1465,  
51.5652

■ 27.7087, 31.1465,  
51.5652

■ 24.3451, 27.5916,  
51.0569

■ 31.6459, 35.1135,  
52.1239

■ 21.5198, 24.4266,  
50.5949

■ 36.1833, 39.5062,  
52.7327

■ 19.1983, 21.6321,  
50.1778

■ 41.3492, 44.3419,  
53.3938

■ 17.3401, 19.1852,  
49.8035

■ 47.1691, 49.6356,  
54.1088

■ 15.8976, 17.0591,  
49.4691

■ 53.6672, 55.4016,  
54.8793

■ 14.7863, 15.2209,  
49.1729

■ 60.8663, 61.6535,  
55.7066

■ 68.7882, 68.4042,  
56.5921

■ 74.9818, 74.3920,  
57.4214

■ 76.9519, 78.3322,  
58.0781

# Harmonies

## Analogous

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



25.4722, 31.1465, 45.4543



27.7087, 31.1465, 51.5652



30.5999, 31.1465, 52.5372

# Triad

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



27.7087, 31.1465, 51.5652



35.5422, 31.1465, 31.1694



26.1079, 31.1465, 22.9400

# Complementary

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



27.7087, 31.1465, 51.5652



33.0919, 31.0814, 19.5854

# 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.



28.6296, 31.1465, 20.3104



27.7087, 31.1465, 51.5652



34.1596, 31.1465, 24.5125

# Square

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



27.7087, 31.1465, 51.5652



35.2549, 31.1465, 39.7688



31.5834, 31.1465, 20.8339



24.5914, 31.1465, 28.6627



# Rectangle

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



27.7087, 31.1465, 51.5652



32.5296, 31.1465, 49.9969



31.5834, 31.1465, 20.8339



26.8590, 31.1465, 21.7119

# Sweetspot

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



27.7097, 31.1477, 51.5659



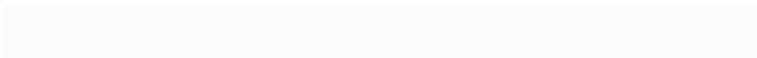
72.0277, 77.5395, 95.3718



29.2424, 40.9018, 31.4565



15.5876, 16.8207, 20.9677



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



27.7097, 31.1477, 51.5659



44.3455, 50.2214, 91.5578



22.4597, 20.6477, 49.8159



9.4797, 10.1517, 12.1320



10.2599, 10.6315, 33.9042



0.4643, 0.5412, 1.3489



# Inverse Universe

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



32.3743, 24.5884, 34.9392



54.0950, 37.8092, 56.5157



39.3890, 43.6757, 21.6845



9.7640, 9.6299, 11.1461



16.1795, 8.1029, 11.5047



0.6653, 0.3300, 0.6165



# Previews

## White Background



This preview shows how the XYZ color 27.7087, 31.1465, 51.5652 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

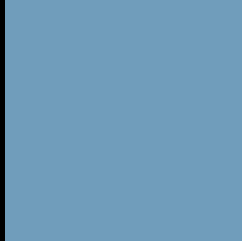
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.7087, 31.1465, 51.5652 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 27.7087, 31.1465, 51.5652**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7087, 31.1465, 51.5652.



This preview shows how white text looks on a background with the XYZ color 27.7087, 31.1465,



# 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

27.7087, 31.1465, 51.5652

### Protanopia

30.8514, 31.1194, 48.6366

### Deuteranopia

31.6293, 30.9649, 52.4539



## Tritanopia

26.2015, 31.3083, 43.6919

# Trichromacy



## Original Color

27.7087, 31.1465, 51.5652

## Protanomaly

29.5587, 31.1487, 49.8018

## Deuteranomaly

29.9752, 30.8324, 51.9483

## Tritanomaly

26.6406, 31.2218, 46.2173

# Monochromacy



## Original Color

27.7087, 31.1465, 51.5652

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

27.4197, 29.8102, 38.4912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7087, 31.1465, 51.5652 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(112, 157, 187)` looks like.

```
.text, #text, p{  
    color:rgb(112, 157, 187)  
}
```

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(112, 157, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 157, 187) }
```

## Border

The CSS property to change the border of an element to XYZ 27.7087, 31.1465, 51.5652 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(112, 157, 187) }
```



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

```
.border{ border-color:rgb(112, 157, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 157, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 157, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 157, 187);  
box-shadow:4px 4px 4px 4px rgb(112, 157,  
187) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.7087, 31.1465, 51.5652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 157, 187) }
```

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

```
.background{ background-color: rgb(112,  
157, 187) }
```

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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