

# Converting Colors

XYZ(20.7457, 27.1685, 24.4084)

Have a look what the booklet for  
XYZ(20.7457, 27.1685, 24.4084)  
contains.

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# Color

**XYZ(20.7670, 27.1658,  
24.5711)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	669980
RGB	102, 153, 128
RGB Percent	40%, 60%, 50%
CMY	0.6000, 0.4000, 0.4980
CMYK	0.33, 0.00, 0.16, 0.40
HSL	151°, 20%, 50%
HSV	151°, 33%, 60%
XYZ	20.7670, 27.1658, 24.5711
YIQ	134.9010, -22.3710, -18.5870

# Conversions

## Conversions Part 2

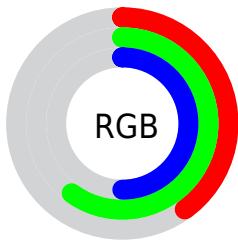
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 136, 153
Decimal	6723968
CIELab	59.13, -22.68, 7.77
CIElCh	59, 23.969, 161.094
Yxy	27.1658, 0.2864, 0.3747
Android (android.graphics.Color)	4284914048 (0xFF669980)
YUV	134.9010, -3.4022, -28.8542
Hunter-Lab	52.1208, -20.0900, 8.5337

# Details

The XYZ color **20.7670, 27.1658, 24.5711** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **21.7199, 17.8080, 22.3722**, and the grayscale version is **23.0112, 24.2095, 26.3642**.

A 20% lighter version of the original color is **44.4139, 55.4165, 52.0717**, and **7.5788, 10.7973, 9.0818** is the 20% darker color. If you saturate the color by 10%, you get **18.7150, 26.1637, 21.9928**, and if you desaturate by 10%, it is **23.1770, 28.3498, 27.3578**.

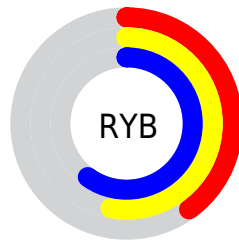
# Distribution



Red (40%)

Green (60%)

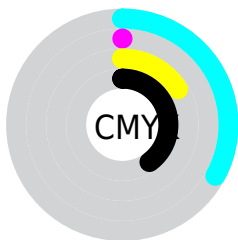
Blue (50%)



Red (40%)

Yellow (53%)

Blue (60%)

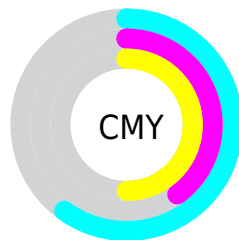


Cyan (33%)

Magenta (0%)

Yellow (16%)

Black (40%)



Cyan (60%)

Magenta (40%)


Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7670, 27.1658, 24.5711 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 20.7670, 27.1658, 24.5711 by changing the saturation by 10% instead.





 20.7670, 27.1658,  
24.5711


 20.7670, 27.1658,  
24.5711


248.7928,  
288.4590, 289.0742


 13.0653, 17.6978,  
15.5417


 44.1936, 55.1498,  
51.9160


 7.5508, 10.7332,  
9.0496


 60.6493, 74.4346,  
71.0686

 3.8583, 5.8877,  
4.6763

 80.7536, 97.7604,  
94.4327

 1.6223, 2.7769,  
2.0032

 104.8719,  
125.5117, 122.4268

 0.4069, 1.0164,  
0.5573

133.3697,  
158.0728, 155.4695

 0.0000, 0.0000,  
0.0000

166.6122,

195.8281, 193.9792

204.9648,  
239.1620, 238.3746

■ 20.7670, 27.1658,  
24.5711

■ 20.7670, 27.1658,  
24.5711

■ 18.7150, 26.1637,  
21.9928

■ 23.1770, 28.3498,  
27.3578

■ 17.0004, 25.3306,  
19.6162

■ 25.9599, 29.7209,  
30.3559

■ 15.6038, 24.6574,  
17.4367


■ 29.1324, 31.2885,  
33.5706


■ 14.5028, 24.1327,  
15.4489


■ 32.7093, 33.0602,  
37.0064


■ 13.6719, 23.7433,  
13.6470


■ 36.7049, 35.0431,  
40.6674


 13.0807, 23.4739,  
12.0249

 41.1326, 37.2441,  
44.5580

 12.7669, 23.3336,  
11.0385

 46.0052, 39.6698,  
48.6821

 51.3351, 42.3264,  
53.0437

 57.1341, 45.2200,  
57.6467

# Harmonies

## Analogous

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



22.2320, 27.1658, 18.8495



20.7670, 27.1658, 24.5711



20.5926, 27.1658, 32.8524

# Triad

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



20.7670, 27.1658, 24.5711



26.9393, 27.1658, 48.7957



30.3868, 27.1658, 20.0453

# Complementary

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



20.7670, 27.1658, 24.5711



21.7199, 17.8080, 22.3722

# 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.



31.8653, 27.1658, 26.5304



20.7670, 27.1658, 24.5711



29.7753, 27.1658, 43.7599

# Square

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



20.7670, 27.1658, 24.5711



24.0067, 27.1658, 47.9918



31.6332, 27.1658, 35.2248



27.7229, 27.1658, 16.6052



# Rectangle

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



20.7670, 27.1658, 24.5711



21.2151, 27.1658, 38.8955



31.6332, 27.1658, 35.2248



31.0478, 27.1658, 21.8833

# Sweetspot

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



20.7677, 27.1669, 24.5717



48.1947, 54.0664, 56.1251



22.6175, 28.2935, 16.8398



10.4859, 11.8613, 12.2326



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



20.7677, 27.1669, 24.5717



34.3912, 47.2814, 40.5249



22.6214, 27.9084, 34.3330



6.2570, 6.9755, 7.2766



10.5680, 19.2907, 9.2118



0.1764, 0.2957, 0.2344



# Inverse Universe

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



21.7199, 17.8080, 22.3722



36.3650, 27.8836, 35.9674



20.2873, 17.2349, 14.8281



6.3287, 6.2706, 7.1108



11.9239, 6.0238, 6.1242



0.1966, 0.0974, 0.1879



# Previews

## White Background



This preview shows how the XYZ color 20.7670, 27.1658, 24.5711 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 20.7670, 27.1658, 24.5711 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 20.7670, 27.1658, 24.5711**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.7670, 27.1658, 24.5711.



This preview shows how white text looks on a background with the XYZ color 20.7670, 27.1658,



# 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

20.7670, 27.1658, 24.5711

### Protanopia

25.4322, 26.8445, 22.2534

### Deuteranopia

27.3405, 26.9009, 25.2241



## Tritanopia

23.2417, 26.9691, 37.2383

# Trichromacy



## Original Color

20.7670, 27.1658, 24.5711

## Protanomaly

23.2792, 26.6116, 22.9784

## Deuteranomaly

24.3330, 26.6599, 24.9825

## Tritanomaly

22.1955, 27.0150, 32.0616

# Monochromacy



## Original Color

20.7670, 27.1658, 24.5711

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

22.0062, 25.2229, 25.5384

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.7670, 27.1658, 24.5711 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(102, 153, 128)` looks like.

```
.text, #text, p{  
    color:rgb(102, 153, 128)  
}
```

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(102, 153, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 153, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 20.7670, 27.1658, 24.5711 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(102, 153, 128) }
```



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

```
.border{ border-color:rgb(102, 153, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 153, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 153, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 153, 128);  
box-shadow:4px 4px 4px 4px rgb(102, 153,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.7670, 27.1658, 24.5711 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 153, 128) }
```

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

```
.background{ background-color: rgb(102,  
153, 128) }
```

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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