

# Converting Colors

XYZ(20.7003, 27.6938, 21.3939)

Have a look what the booklet for  
XYZ(20.7003, 27.6938, 21.3939)  
contains.

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# Color

**XYZ(20.7003, 27.6938,  
21.3939)**

# Conversions

## Conversions Part 1

Format	Color
Hex	689B76
RGB	104, 155, 118
RGB Percent	41%, 61%, 46%
CMY	0.5922, 0.3921, 0.5373
CMYK	0.33, 0.00, 0.24, 0.39
HSL	136°, 20%, 51%
HSV	136°, 33%, 61%
XYZ	20.7003, 27.6938, 21.3939
YIQ	135.5330, -18.5190, -22.3190

# Conversions

## Conversions Part 2

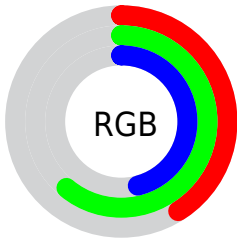
<b>Format</b>	<b>Color</b>
<b>RYB</b>	104, 144, 155
Decimal	6855542
CIELab	59.61, -25.08, 14.09
CIELCh	60, 28.771, 150.672
Yxy	27.6938, 0.2966, 0.3968
Android (android.graphics.Color)	4285045622 (0xFF689B76)
YUV	135.5330, -8.6438, -27.6544
Hunter-Lab	52.6249, -21.8796, 12.7339

# Details

The XYZ color **20.7003, 27.6938, 21.3939** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **23.2766, 18.7929, 27.6012**, and the grayscale version is **23.2641, 24.4756, 26.6539**.

A 20% lighter version of the original color is **44.2069, 56.1636, 46.5409**, and **7.4771, 10.9270, 7.5094** is the 20% darker color. If you saturate the color by 10%, you get **18.4350, 26.5994, 18.0052**, and if you desaturate by 10%, it is **23.3775, 28.9929, 25.2190**.

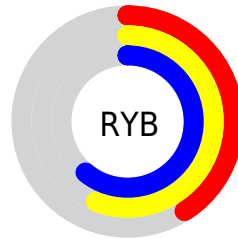
# Distribution



Red (41%)

Green (61%)

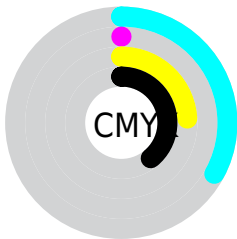
Blue (46%)



Red (41%)

Yellow (56%)

Blue (61%)

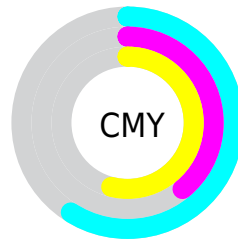


Cyan (33%)

Magenta (0%)

Yellow (24%)

Black (39%)



Cyan (59%)

Magenta (39%)

Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7003, 27.6938, 21.3939 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 20.7003, 27.6938, 21.3939 by changing the saturation by 10% instead.



■ 20.7003, 27.6938,  
21.3939

■ 20.7003, 27.6938,  
21.3939

248.4434,  
291.0009, 272.2140

■ 13.0163, 18.0950,  
13.2182

■ 44.0833, 55.9952,  
46.6314

■ 7.5169, 11.0182,  
7.4465

■ 60.5129, 75.4666,  
64.5304

■ 3.8366, 6.0791,  
3.6602

■ 80.5886, 98.9976,  
86.5074

■ 1.6101, 2.8932,  
1.4408

■ 104.6755,  
126.9726, 112.9812

■ 0.3990, 1.0762,  
0.1733

133.1391,  
159.7760, 144.3702

■ 0.0000, 0.0000,  
0.0000

166.3447,

197.7923, 181.0930

204.6577,  
241.4058, 223.5681

■ 20.7003, 27.6938,  
21.3939

■ 20.7003, 27.6938,  
21.3939

■ 18.4350, 26.5994,  
18.0052

■ 23.3775, 28.9929,  
25.2190

■ 16.5584, 25.6958,  
15.0355

■ 26.4839, 30.5028,  
29.4934

■ 15.0485, 24.9727,  
12.4690


■ 30.0382, 32.2340,  
34.2319


■ 13.8800, 24.4173,  
10.2881


■ 34.0577, 34.1948,  
39.4477


■ 13.0241, 24.0154,  
8.4739


■ 38.5584, 36.3934,  
45.1538


 12.4471, 23.7498,  
7.0059

 43.5558, 38.8374,  
51.3626

 12.1497, 23.6149,  
6.1601

 49.0646, 41.5342,  
58.0860

 55.0989, 44.4908,  
65.3356

 61.6722, 47.7139,  
73.1226

# Harmonies

## Analogous

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



22.9238, 27.6938, 16.0355



20.7003, 27.6938, 21.3939



19.9487, 27.6938, 30.3885

# Triad

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



20.7003, 27.6938, 21.3939



26.4039, 27.6938, 54.8468



32.7848, 27.6938, 21.0731

# Complementary

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



20.7003, 27.6938, 21.3939



23.2766, 18.7929, 27.6012

# 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.



33.9262, 27.6938, 29.9204



20.7003, 27.6938, 21.3939



30.0407, 27.6938, 50.7914

# Square

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



20.7003, 27.6938, 21.3939



23.0531, 27.6938, 51.1234



32.8795, 27.6938, 41.0280



29.8864, 27.6938, 15.8823



# Rectangle

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



20.7003, 27.6938, 21.3939



20.3237, 27.6938, 37.7650



32.8795, 27.6938, 41.0280



33.3979, 27.6938, 23.6409

# Sweetspot

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



20.7010, 27.6950, 21.3945



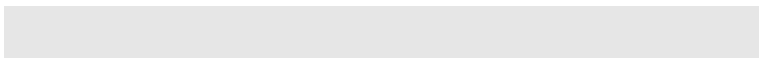
49.0713, 55.4249, 55.0328



25.2738, 30.1414, 17.5828



10.9256, 12.4568, 12.2124



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



20.7010, 27.6950, 21.3945



34.2121, 48.2133, 34.0694



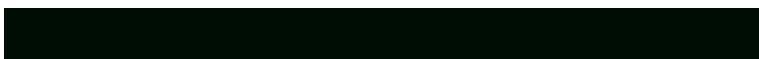
22.3967, 28.3732, 30.3236



6.1984, 6.9521, 6.9680



9.7726, 18.9725, 5.0232



0.1599, 0.2892, 0.1479



# Inverse Universe

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



23.2766, 18.7929, 27.6012



39.5036, 29.9078, 46.8087



21.6153, 18.1284, 18.8529



6.3888, 6.2947, 7.4277



13.2434, 6.5516, 13.0724



0.2130, 0.1039, 0.2745



# Previews

## White Background



This preview shows how the XYZ color 20.7003, 27.6938, 21.3939 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 20.7003, 27.6938, 21.3939 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 20.7003, 27.6938, 21.3939**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.7003, 27.6938, 21.3939.



This preview shows how white text looks on a background with the XYZ color 20.7003, 27.6938,



# 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

20.7003, 27.6938, 21.3939

### Protanopia

25.6960, 27.4902, 19.2810

### Deuteranopia

27.9112, 27.4746, 22.2444



## Tritanopia

23.9905, 27.5788, 37.7770

# Trichromacy



## Original Color

20.7003, 27.6938, 21.3939

## Protanomaly

23.4627, 27.2332, 19.9395

## Deuteranomaly

24.5798, 27.0778, 22.0202

## Tritanomaly

22.6079, 27.4925, 30.9031

# Monochromacy



## Original Color

20.7003, 27.6938, 21.3939

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

22.0971, 25.5150, 24.5291

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.7003, 27.6938, 21.3939 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(104, 155, 118)` looks like.

```
.text, #text, p{  
    color:rgb(104, 155, 118)  
}
```

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(104, 155, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 155, 118) }
```

## Border

The CSS property to change the border of an element to XYZ 20.7003, 27.6938, 21.3939 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(104, 155, 118) }
```



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

```
.border{ border-color:rgb(104, 155, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 155, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 155, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 155, 118);  
box-shadow:4px 4px 4px 4px rgb(104, 155,  
118) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.7003, 27.6938, 21.3939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 155, 118) }
```

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

```
.background{ background-color: rgb(104,  
155, 118) }
```

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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