

# Converting Colors

XYZ(20.3847, 27.7657, 21.8518)

Have a look what the booklet for  
XYZ(20.3847, 27.7657, 21.8518)  
contains.

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# Color

**XYZ(20.3638, 27.7615,  
21.7380)**

# Conversions

## Conversions Part 1

Format	Color
Hex	639C77
RGB	99, 156, 119
RGB Percent	39%, 61%, 47%
CMY	0.6118, 0.3882, 0.5333
CMYK	0.37, 0.00, 0.24, 0.39
HSL	141°, 22%, 50%
HSV	141°, 37%, 61%
XYZ	20.3638, 27.7615, 21.7380
YIQ	134.7390, -22.0950, -23.5910

# Conversions

## Conversions Part 2

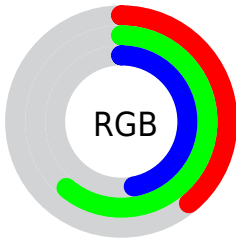
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	99, 141, 156
Decimal	6528119
CIE <sub>Lab</sub>	59.67, -26.99, 13.58
CIE <sub>LCh</sub>	60, 30.211, 153.291
Yxy	27.7615, 0.2915, 0.3974
Android (android.graphics.Color)	4284718199 (0xFF639C77)
YUV	134.7390, -7.7593, -31.3431
Hunter-Lab	52.6892, -23.2177, 12.4211

# Details

The XYZ color **20.3638, 27.7615, 21.7380** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **22.6170, 17.7697, 25.5313**, and the grayscale version is **22.9667, 24.1627, 26.3132**.

A 20% lighter version of the original color is **43.5938, 56.2042, 47.0789**, and **7.3224, 10.9958, 7.5308** is the 20% darker color. If you saturate the color by 10%, you get **18.2453, 26.7367, 18.6318**, and if you desaturate by 10%, it is **22.8779, 28.9843, 25.2023**.

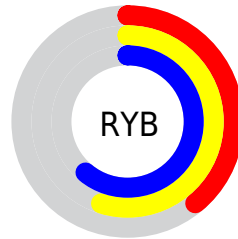
# Distribution



Red (39%)

Green (61%)

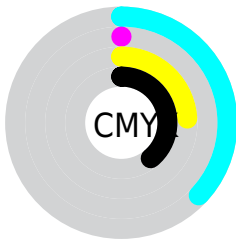
Blue (47%)



Red (39%)

Yellow (55%)

Blue (61%)

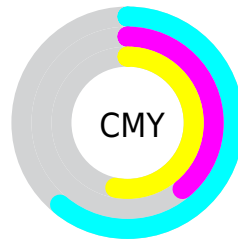


Cyan (37%)

Magenta (0%)

Yellow (24%)

Black (39%)



Cyan (61%)

Magenta (39%)

Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3638, 27.7615, 21.7380 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 20.3638, 27.7615, 21.7380 by changing the saturation by 10% instead.



■ 20.3638, 27.7615,  
21.7380

■ 20.3638, 27.7615,  
21.7380

246.6740,  
291.3255, 274.0837

■ 12.7696, 18.1460,  
13.4680

■ 43.5256, 56.1034,  
47.2092

■ 7.3460, 11.0548,  
7.6171

■ 59.8239, 75.5986,  
65.2475

■ 3.7276, 6.1037,  
3.7667

■ 79.7542, 99.1558,  
87.3791

■ 1.5492, 2.9083,  
1.4983

■ 103.6819,  
127.1594, 114.0223

■ 0.3590, 1.0840,  
0.2166

131.9724,  
159.9937, 145.5959

■ 0.0000, 0.0000,  
0.0000

164.9910,

198.0433, 182.5183

203.1031,  
241.6924, 225.2080

■ 20.3638, 27.7615,  
21.7380

■ 20.3638, 27.7615,  
21.7380

■ 18.2453, 26.7367,  
18.6318

■ 22.8779, 28.9843,  
25.2023

■ 16.4991, 25.8958,  
15.8702

■ 25.8047, 30.4113,  
29.0337

■ 15.1028, 25.2283,  
13.4417


■ 29.1632, 32.0530,  
33.2434


■ 14.0306, 24.7211,  
11.3333


■ 32.9703, 33.9178,  
37.8414


■ 13.2529, 24.3593,  
9.5313


■ 37.2422, 36.0139,  
42.8376


 12.7265, 24.1208,  
8.0204

 41.9940, 38.3489,  
48.2412

 12.5723, 24.0513,  
7.5613

 47.2405, 40.9301,  
54.0612

 52.9955, 43.7647,  
60.3064

 59.2724, 46.8592,  
66.9854

# Harmonies

## Analogous

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



22.5631, 27.7615, 15.8535



20.3638, 27.7615, 21.7380



19.7226, 27.7615, 31.4492

# Triad

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



20.3638, 27.7615, 21.7380



26.8097, 27.7615, 56.4107



33.0019, 27.7615, 20.1046

# Complementary

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



20.3638, 27.7615, 21.7380



22.6170, 17.7697, 25.5313

# 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.



34.4040, 27.7615, 29.0380



20.3638, 27.7615, 21.7380



30.6190, 27.7615, 51.3962

# Square

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



20.3638, 27.7615, 21.7380



23.2264, 27.7615, 53.1328



33.4930, 27.7615, 40.6815



29.8209, 27.7615, 15.0824



# Rectangle

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



20.3638, 27.7615, 21.7380



20.2087, 27.7615, 39.3137



33.4930, 27.7615, 40.6815



33.7101, 27.7615, 22.6618

# Sweetspot

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



20.3645, 27.7626, 21.7386



50.0130, 56.7703, 56.7131



24.3030, 29.9175, 16.2983



10.8395, 12.4110, 12.2716



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.



20.3645, 27.7626, 21.7386



33.7312, 48.8463, 34.7364



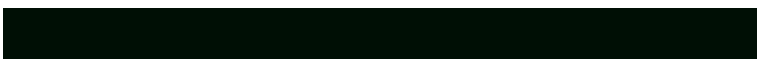
22.3368, 28.5515, 32.1242



6.6421, 7.4376, 7.5497



10.3705, 19.8161, 6.3078



0.2045, 0.3619, 0.2132



# Inverse Universe

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



22.6170, 17.7697, 25.5313



38.4413, 27.9242, 42.6486



20.8558, 17.0652, 16.2571



6.8052, 6.7150, 7.8254



13.2554, 6.6067, 10.8619



0.2563, 0.1259, 0.2960



# Previews

## White Background



This preview shows how the XYZ color 20.3638, 27.7615, 21.7380 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 20.3638, 27.7615, 21.7380 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 20.3638, 27.7615, 21.7380**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.3638, 27.7615, 21.7380.



This preview shows how white text looks on a background with the XYZ color 20.3638, 27.7615,



# 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

20.3638, 27.7615, 21.7380

### Protanopia

25.7520, 27.5126, 19.5760

### Deuteranopia

27.9735, 27.4995, 22.5725



## Tritanopia

23.6123, 27.6095, 38.2671

# Trichromacy



## Original Color

20.3638, 27.7615, 21.7380

## Protanomaly

23.3573, 27.4042, 20.2781

## Deuteranomaly

24.4535, 27.2314, 22.3797

## Tritanomaly

22.2422, 27.5351, 31.3366

# Monochromacy



## Original Color

20.3638, 27.7615, 21.7380

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

21.8109, 25.3675, 24.5157

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.3638, 27.7615, 21.7380 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(99, 156, 119)` looks like.

```
.text, #text, p{  
    color:rgb(99, 156, 119)  
}
```

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(99, 156, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 156, 119) }
```

## Border

The CSS property to change the border of an element to XYZ 20.3638, 27.7615, 21.7380 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(99, 156, 119) }
```



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

```
.border{ border-color:rgb(99, 156, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 156, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 156, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 156, 119);  
box-shadow:4px 4px 4px 4px rgb(99, 156,  
119) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.3638, 27.7615, 21.7380 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 156, 119) }
```

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

```
.background{ background-color: rgb(99, 156,  
119) }
```

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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