

# Converting Colors

XYZ(13.0128, 18.3403, 12.7517)

Have a look what the booklet for  
XYZ(13.0128, 18.3403, 12.7517)  
contains.

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# Color

**XYZ(13.0128, 18.3403,  
12.7517)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4E825B
RGB	78, 130, 91
RGB Percent	31%, 51%, 36%
CMY	0.6941, 0.4902, 0.6431
CMYK	0.40, 0.00, 0.30, 0.49
HSL	135°, 25%, 41%
HSV	135°, 40%, 51%
XYZ	13.0128, 18.3403, 12.7517
YIQ	110.0060, -18.4730, -23.1530

# Conversions

## Conversions Part 2

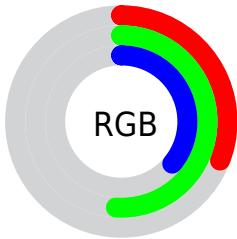
<b>Format</b>	<b>Color</b>
<b>RYB</b>	78, 120, 130
Decimal	5145179
CIELab	49.91, -26.38, 15.78
CIELCh	50, 30.739, 149.111
Yxy	18.3403, 0.2950, 0.4158
Android (android.graphics.Color)	4283335259 (0xFF4E825B)
YUV	110.0060, -9.3700, -28.0693
Hunter-Lab	42.8256, -20.7065, 12.3238

# Details


The XYZ color **13.0128, 18.3403, 12.7517** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **15.1417, 11.4792, 18.2478**, and the grayscale version is **14.8529, 15.6264, 17.0172**.

A 20% lighter version of the original color is **30.7945, 40.4572, 31.3853**, and **3.8212, 6.1737, 3.4729** is the 20% darker color. If you saturate the color by 10%, you get **11.6576, 17.6877, 10.6337**, and if you desaturate by 10%, it is **14.6342, 19.1249, 15.1683**.

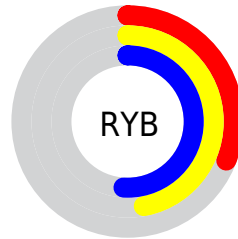
# Distribution



 Red (31%)

 Green (51%)

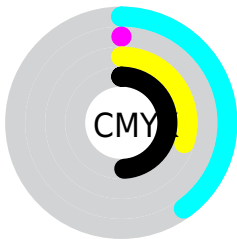
 Blue (36%)




 Red (31%)

 Yellow (47%)

 Blue (51%)

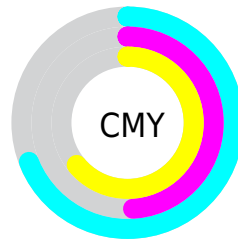


 Cyan (40%)


 Magenta (0%)

 Yellow (30%)

 Black (49%)



 Cyan (69%)

 Magenta (49%)

 Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.0128, 18.3403, 12.7517 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 13.0128, 18.3403, 12.7517 by changing the saturation by 10% instead.



■ 13.0128, 18.3403,  
12.7517

■ 13.0128, 18.3403,  
12.7517

204.6356,  
242.7822, 220.4718

■ 7.5144, 11.1946,  
7.1291

■ 30.9279, 40.6163,  
31.5416

■ 3.8350, 6.1979,  
3.4633

■ 44.0753, 56.5154,  
45.5459

■ 1.6092, 2.9658,  
1.3358

■ 60.5031, 76.1011,  
63.1813

■ 0.3984, 1.1139,  
0.0908

■ 80.5767, 99.7578,  
84.8662

■ 0.0000, 0.0000,  
0.0000

■ 104.6614,  
127.8699, 111.0191

133.1225,

160.8217, 142.0587

166.3255,  
198.9977, 178.4034

■ 13.0128, 18.3403,  
12.7517

■ 13.0128, 18.3403,  
12.7517

■ 11.6576, 17.6877,  
10.6337

■ 14.6342, 19.1249,  
15.1683

■ 10.5526, 17.1574,  
8.8014

■ 16.5339, 20.0458,  
17.8932

■ 9.6824, 16.7424,  
7.2430


■ 18.7247, 21.1102,  
20.9372


■ 9.0288, 16.4335,  
5.9450


■ 21.2185, 22.3237,  
24.3102


■ 8.5714, 16.2205,  
4.8932


■ 24.0263, 23.6919,  
28.0218

 8.2506, 16.0730,  
4.0701

 27.1586, 25.2201,  
32.0809

 30.6255, 26.9132,  
36.4963

 34.4366, 28.7760,  
41.2765

 38.6010, 30.8131,  
46.4296

# Harmonies

## Analogous

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



14.8213, 18.3403, 8.8934



13.0128, 18.3403, 12.7517



12.3640, 18.3403, 19.7192

# Triad

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



13.0128, 18.3403, 12.7517



17.3443, 18.3403, 40.9515



22.8578, 18.3403, 13.0772

# Complementary

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



13.0128, 18.3403, 12.7517



15.1417, 11.4792, 18.2478

# 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.



23.7241, 18.3403, 20.2218



13.0128, 18.3403, 12.7517



20.3324, 18.3403, 37.7381

# Square

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



13.0128, 18.3403, 12.7517



14.6853, 18.3403, 37.3553



22.7529, 18.3403, 29.4980



20.5012, 18.3403, 9.0407



# Rectangle

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



13.0128, 18.3403, 12.7517



12.6132, 18.3403, 25.7592



22.7529, 18.3403, 29.4980



23.3440, 18.3403, 15.1196

# Sweetspot

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



13.0133, 18.3411, 12.7521



32.0521, 36.7267, 35.6030



16.6946, 20.2981, 10.2458



7.1628, 8.2682, 7.9316



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

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



13.0133, 18.3411, 12.7521



20.7284, 31.2439, 19.0455



14.3359, 18.8701, 19.7170



4.3167, 4.8350, 4.8392



7.9131, 15.4118, 3.9154



0.0000, 0.0000, 0.0000



# Inverse Universe

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



15.1417, 11.4792, 18.2478



25.0160, 17.3994, 30.0998



13.8191, 10.9502, 11.2830



4.4537, 4.3946, 5.1934



10.9211, 5.3881, 11.4402



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 13.0128, 18.3403, 12.7517 looks on a white 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



# Black Background



This preview shows how the XYZ color 13.0128, 18.3403, 12.7517 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 13.0128, 18.3403, 12.7517**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.0128, 18.3403, 12.7517.



This preview shows how white text looks on a background with the XYZ color 13.0128, 18.3403,



# 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

13.0128, 18.3403, 12.7517

### Protanopia

16.9105, 18.1408, 11.4143

### Deuteranopia

18.4519, 18.0398, 13.3360



## Tritanopia

15.4412, 18.1628, 25.2462

# Trichromacy



## Original Color

13.0128, 18.3403, 12.7517

## Protanomaly

15.0277, 17.8749, 11.8907

## Deuteranomaly

15.8197, 17.7148, 13.1752

## Tritanomaly

14.3870, 18.1145, 19.8777

# Monochromacy



## Original Color

13.0128, 18.3403, 12.7517

## Achromatopsia

14.8208, 15.5926, 16.9804

## Achromatomaly

13.8465, 16.2985, 15.2481

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.0128, 18.3403, 12.7517 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(78, 130, 91)` looks like.

```
.text, #text, p{  
    color:rgb(78, 130, 91)  
}
```

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(78, 130, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 130, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 13.0128, 18.3403, 12.7517 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(78, 130, 91) }
```



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

```
.border{ border-color:rgb(78, 130, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 130, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 130, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 130, 91);  
box-shadow:4px 4px 4px 4px rgb(78, 130,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.0128, 18.3403, 12.7517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 130, 91) }
```

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

```
.background{ background-color: rgb(78, 130,  
91) }
```

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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