

# Converting Colors

XYZ(14.1777, 20.8062, 12.7200)

Have a look what the booklet for  
XYZ(14.1777, 20.8062, 12.7200)  
contains.

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# Color

**XYZ(14.1777, 20.8062,  
12.7200)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4E8B59
RGB	78, 139, 89
RGB Percent	31%, 55%, 35%
CMY	0.6941, 0.4549, 0.6510
CMYK	0.44, 0.00, 0.36, 0.45
HSL	131°, 28%, 43%
HSV	131°, 44%, 55%
XYZ	14.1777, 20.8062, 12.7200
YIQ	115.0610, -20.3060, -28.4820

# Conversions

## Conversions Part 2

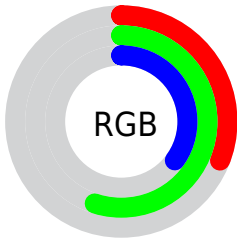
<b>Format</b>	<b>Color</b>
<b>RYB</b>	78, 130, 139
Decimal	5147481
CIELab	52.74, -31.11, 20.74
CIElCh	53, 37.389, 146.306
Yxy	20.8062, 0.2972, 0.4362
Android (android.graphics.Color)	4283337561 (0xFF4E8B59)
YUV	115.0610, -12.8481, -32.5025
Hunter-Lab	45.6138, -24.3427, 15.3959

# Details

The XYZ color **14.1777, 20.8062, 12.7200** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **17.2688, 12.4967, 21.9248**, and the grayscale version is **16.3568, 17.2086, 18.7402**.

A 20% lighter version of the original color is **32.9361, 44.7498, 31.3278**, and **4.3518, 7.3735, 3.4794** is the 20% darker color. If you saturate the color by 10%, you get **12.7151, 20.1038, 10.3446**, and if you desaturate by 10%, it is **15.9562, 21.6640, 15.4977**.

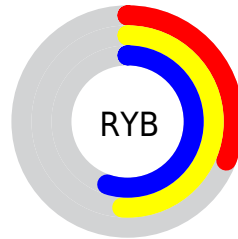
# Distribution



Red (31%)

Green (55%)

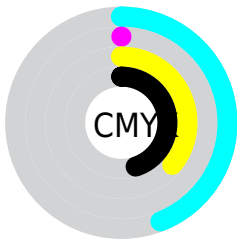
Blue (35%)



Red (31%)

Yellow (51%)

Blue (55%)

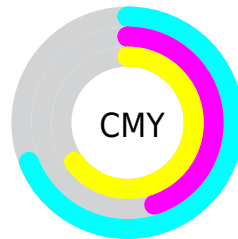


Cyan (44%)

Magenta (0%)

Yellow (36%)

Black (45%)



Cyan (69%)

Magenta (45%)

Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 14.1777, 20.8062, 12.7200 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 14.1777, 20.8062, 12.7200 by changing the saturation by 10% instead.



■ 14.1777, 20.8062,  
12.7200

■ 14.1777, 20.8062,  
12.7200

211.8221,  
256.2468, 220.2597

■ 8.3269, 12.9824,  
7.1076

■ 32.9876, 44.7648,  
31.4836

■ 4.3584, 7.4164,  
3.4500

■ 46.6775, 61.6684,  
45.4719

■ 1.9068, 3.7239,  
1.3287

■ 63.7110, 82.3673,  
63.0891

■ 0.5808, 1.5203,  
0.0852

■ 84.4537, 107.2461,  
84.7540

■ 0.0000, 0.3030,  
0.0000

■ 109.2707,  
136.6890, 110.8849

■ 0.0000, 0.0000,  
0.0000

138.5276,

171.0805, 141.9005

172.5896,  
210.8049, 178.2193

■ 14.1777, 20.8062,  
12.7200

■ 14.1777, 20.8062,  
12.7200

■ 12.7151, 20.1038,  
10.3446

■ 15.9562, 21.6640,  
15.4977

■ 11.5480, 19.5451,  
8.3514

■ 18.0662, 22.6832,  
18.6938

■ 10.6564, 19.1206,  
6.7210


■ 20.5241, 23.8724,  
22.3250


■ 10.0167, 18.8187,  
5.4313


■ 23.3446, 25.2391,  
26.4067


■ 9.6006, 18.6253,  
4.4580


■ 26.5419, 26.7900,  
30.9539

 9.4092, 18.5365,  
4.0055

 30.1291, 28.5318,  
35.9804

 34.1189, 30.4705,  
41.4997

 38.5233, 32.6123,  
47.5249

 43.3538, 34.9627,  
54.0682

# Harmonies

## Analogous

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



16.6399, 20.8062, 8.3569



14.1777, 20.8062, 12.7200



13.2058, 20.8062, 21.3010

# Triad

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



14.1777, 20.8062, 12.7200



19.2973, 20.8062, 51.4949



27.2750, 20.8062, 14.4188

# Complementary

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



14.1777, 20.8062, 12.7200



17.2688, 12.4967, 21.9248

# 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.



28.2273, 20.8062, 24.0640



14.1777, 20.8062, 12.7200



23.2826, 20.8062, 47.8239

# Square

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



14.1777, 20.8062, 12.7200



15.9063, 20.8062, 45.5866



26.6817, 20.8062, 36.7524



24.2265, 20.8062, 9.0877



# Rectangle

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



14.1777, 20.8062, 12.7200



13.4252, 20.8062, 29.2236



26.6817, 20.8062, 36.7524



27.8667, 20.8062, 17.1517

# Sweetspot

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



14.1782, 20.8071, 12.7205



37.0392, 42.8880, 40.3957



19.6365, 23.6704, 10.7418



8.3186, 9.7778, 8.9920



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



14.1782, 20.8071, 12.7205



22.7069, 35.9710, 18.4203



15.6849, 21.4097, 20.6545



5.0063, 5.6220, 5.5542



8.4968, 16.7313, 3.6410



0.0604, 0.1127, 0.0450



# Inverse Universe

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



17.2688, 12.4967, 21.9248



29.0016, 19.0127, 37.1431



15.5928, 11.8263, 13.0993



5.1958, 5.1138, 6.1196



12.3534, 6.0515, 14.8970



0.0867, 0.0421, 0.1236



# Previews

## White Background



This preview shows how the XYZ color 14.1777, 20.8062, 12.7200 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

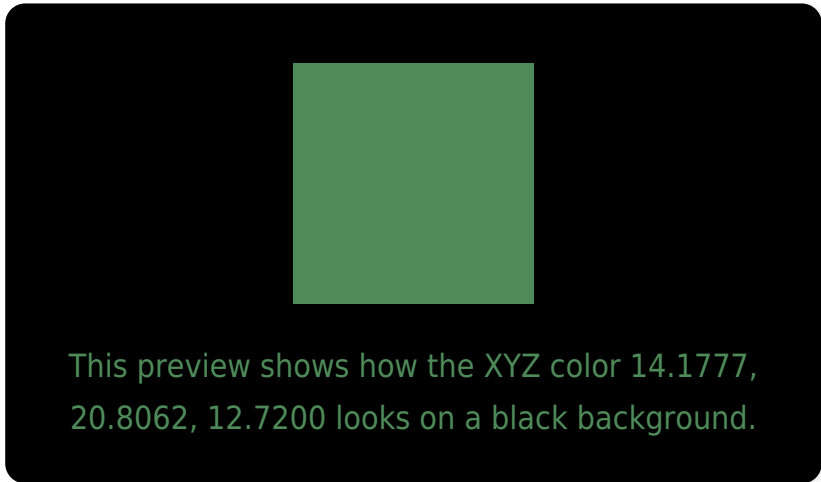
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



## 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 14.1777, 20.8062, 12.7200**

## **Background**



This preview shows how black text looks on a background with the XYZ color 14.1777, 20.8062, 12.7200.



This preview shows how white text looks on a background with the XYZ color 14.1777, 20.8062,



# 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

14.1777, 20.8062, 12.7200

### Protanopia

19.0483, 20.5260, 11.1416

### Deuteranopia

20.9050, 20.5192, 13.2147



## Tritanopia

17.4256, 20.6594, 29.0558

# Trichromacy



## Original Color

14.1777, 20.8062, 12.7200

## Protanomaly

16.6926, 20.2660, 11.6263

## Deuteranomaly

17.6895, 20.1624, 13.0846

## Tritanomaly

16.0769, 20.7364, 21.8941

# Monochromacy



## Original Color

14.1777, 20.8062, 12.7200

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

15.2887, 18.2807, 16.3584

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 14.1777, 20.8062, 12.7200 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, 139, 89)` looks like.

```
.text, #text, p{  
    color:rgb(78, 139, 89)  
}
```

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, 139, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 139, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 14.1777, 20.8062, 12.7200 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, 139, 89) }
```



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

```
.border{ border-color:rgb(78, 139, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 139, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 139, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 139, 89);  
box-shadow:4px 4px 4px 4px rgb(78, 139,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 14.1777, 20.8062, 12.7200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 139, 89) }
```

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

```
.background{ background-color: rgb(78, 139,  
89) }
```

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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