

Converting Colors

XYZ(12.8113, 23.6746, 7.2600)

Have a look what the booklet for
XYZ(12.8113, 23.6746, 7.2600)
contains.

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Color

**XYZ(12.8254, 23.6916,
7.2651)**

Conversions

Conversions Part 1

Format	Color
Hex	219A35
RGB	33, 154, 53
RGB Percent	13%, 60%, 21%
CMY	0.8706, 0.3961, 0.7921
CMYK	0.79, 0.00, 0.66, 0.40
HSL	130°, 65%, 37%
HSV	130°, 79%, 60%
XYZ	12.8254, 23.6916, 7.2651
YIQ	106.3070, -39.6950, -57.0630

Conversions

Conversions Part 2

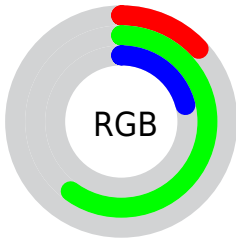
Format	Color
R _Y B	33, 137, 154
Decimal	2202165
CIE Lab	55.78, -52.93, 42.64
CIE LCh	56, 67.966, 141.148
Yxy	23.6916, 0.2929, 0.5411
Android (android.graphics.Color)	4280392245 (0xFF219A35)
YUV	106.3070, -26.2804, -64.2902
Hunter-Lab	48.6740, -38.1455, 25.2222

Details

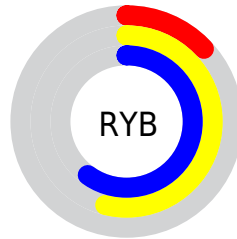
The XYZ color **12.8254, 23.6916, 7.2651** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **18.1740, 9.6793, 23.4648**, and the grayscale version is **13.8622, 14.5841, 15.8821**.

A 20% lighter version of the original color is **30.6909, 49.7453, 21.0809**, and **4.6537, 9.3074, 1.5512** is the 20% darker color. If you saturate the color by 10%, you get **12.1837, 23.3912, 5.8935**, and if you desaturate by 10%, it is **13.7732, 24.1420, 9.0662**.

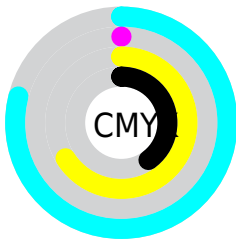
Distribution



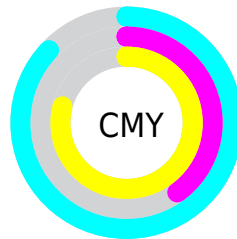
- Red (13%)
- Green (60%)
- Blue (21%)



- Red (13%)
- Yellow (54%)
- Blue (60%)



- Cyan (79%)
- Magenta (0%)
- Yellow (66%)
- Black (40%)





- Cyan (87%)
- Magenta (40%)
- Yellow (79%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8254, 23.6916, 7.2651 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 12.8254, 23.6916, 7.2651 by changing the saturation by 10% instead.


 12.8254, 23.6916,
7.2651


 12.8254, 23.6916,
7.2651


203.4559,
271.2576, 179.5623


 7.3846, 15.1050,
3.5475


 30.5937, 49.5265,
21.0265


 3.7522, 8.8931,
1.3805


 43.6520, 67.5435,
31.9073

 1.5629, 4.6715,
0.1265


 59.9801, 89.4729,
46.0129

 0.3681, 2.0559,
0.0000

 79.9434, 115.6989,
63.7619

 0.0000, 0.6396,
0.0000

 103.9073,
146.6060, 85.5728

 0.0000, 0.0000,
0.0000

 132.2371,

182.5785, 111.8642

165.2982,
224.0009, 143.0545

■ 12.8254, 23.6916,
7.2651

■ 12.8254, 23.6916,
7.2651

■ 12.1837, 23.3912,
5.8935

■ 13.7732, 24.1420,
9.0662

■ 11.7849, 23.2069,
4.9131

■ 15.0583, 24.7558,
11.3270

■ 11.7365, 23.1843,
4.8022

■ 16.7102, 25.5482,
14.0767

■ 18.7543, 26.5318,
17.3418

■ 21.2138, 27.7181,
21.1467

■ 24.1104, 29.1177,
25.5144

■ 27.4638, 30.7403,
30.4665

■ 31.2928, 32.5952,
36.0233

■ 35.6150, 34.6911,
42.2044

Harmonies

Analogous

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



17.5772, 23.6916, 2.9940



12.8254, 23.6916, 7.2651



10.8072, 23.6916, 19.7932

Triad

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



12.8254, 23.6916, 7.2651



20.3109, 23.6916, 94.7027



39.3884, 23.6916, 13.2999

Complementary

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



12.8254, 23.6916, 7.2651



18.1740, 9.6793, 23.4648

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.



40.5949, 23.6916, 32.9044



12.8254, 23.6916, 7.2651



28.3078, 23.6916, 89.2052

Square

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



12.8254, 23.6916, 7.2651



14.4327, 23.6916, 75.0698



36.1653, 23.6916, 62.6978



33.1694, 23.6916, 4.8353

Rectangle

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



12.8254, 23.6916, 7.2651



10.8707, 23.6916, 34.9172



36.1653, 23.6916, 62.6978



40.4421, 23.6916, 18.4202

Sweetspot

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



12.8260, 23.6926, 7.2656



40.5892, 51.3422, 41.5325



21.9600, 28.4439, 5.7717



8.8058, 11.4369, 8.8221



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.



12.8260, 23.6926, 7.2656



21.5878, 42.2395, 9.3384



15.0886, 24.5976, 19.1804



6.1718, 6.9414, 6.8279



9.5712, 18.8919, 3.9624



0.1523, 0.2861, 0.1077

Inverse Universe

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



18.1740, 9.6793, 23.4648



31.6107, 15.6529, 39.4585



15.1529, 8.4709, 7.5562



6.4174, 6.3061, 7.5779



14.0722, 6.8831, 17.4368



0.2207, 0.1070, 0.3149

Previews

White Background



This preview shows how the XYZ color 12.8254, 23.6916, 7.2651 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 12.8254, 23.6916, 7.2651 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 12.8254, 23.6916, 7.2651

Background



This preview shows how black text looks on a background with the XYZ color 12.8254, 23.6916, 7.2651.



This preview shows how white text looks on a background with the XYZ color 12.8254, 23.6916,

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

12.8254, 23.6916, 7.2651

Protanopia

21.1134, 23.2762, 6.0693

Deuteranopia

23.6402, 23.1620, 7.7822



Tritanopia

18.4283, 23.6120, 35.0388

Trichromacy



Original Color

12.8254, 23.6916, 7.2651



Protanomaly

16.0231, 22.3357, 6.3724



Deuteranomaly

16.7960, 21.6371, 7.4288



Tritanomaly

15.5506, 23.3525, 21.1406

Monochromacy



Original Color

12.8254, 23.6916, 7.2651



Achromatopsia

13.6994, 14.4128, 15.6956



Achromatomaly

12.0277, 16.5163, 11.5709

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8254, 23.6916, 7.2651 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(33, 154, 53)` looks like.

```
.text, #text, p{  
    color:rgb(33, 154, 53)  
}
```

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(33, 154, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 154, 53) }
```

Border

The CSS property to change the border of an element to XYZ 12.8254, 23.6916, 7.2651 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(33, 154, 53) }
```


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

```
.border{ border-color:rgb(33, 154, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 154, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 154, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 154, 53);  
box-shadow:4px 4px 4px 4px rgb(33, 154,  
53) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8254, 23.6916, 7.2651 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 154, 53) }
```

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

```
.background{ background-color: rgb(33, 154,  
53) }
```

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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