

# Converting Colors

XYZ(12.8023, 24.6862, 6.8281)

Have a look what the booklet for  
XYZ(12.8023, 24.6862, 6.8281)  
contains.

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# Color

**XYZ(12.7900, 24.6848,  
6.7799)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	049E2F
RGB	4, 158, 47
RGB Percent	2%, 62%, 18%
CMY	0.9843, 0.3804, 0.8157
CMYK	0.97, 0.00, 0.70, 0.38
HSL	137°, 95%, 32%
HSV	137°, 97%, 62%
XYZ	12.7900, 24.6848, 6.7799
YIQ	99.3000, -56.1530, -67.1690

# Conversions

## Conversions Part 2

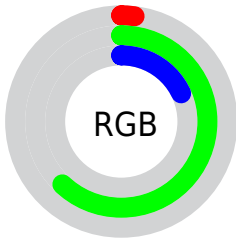
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	4, 124, 158
Decimal	302639
CIE <sub>Lab</sub>	56.77, -57.43, 46.19
CIE <sub>LCh</sub>	57, 73.700, 141.192
Yxy	24.6848, 0.2890, 0.5578
Android (android.graphics.Color)	4278492719 (0xFF049E2F)
YUV	99.3000, -25.7839, -83.5781
Hunter-Lab	49.6838, -40.9958, 26.6879

# Details

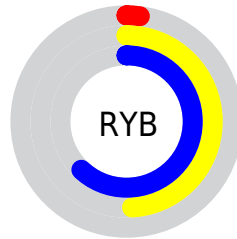
The XYZ color **12.7900, 24.6848, 6.7799** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **17.2389, 8.5939, 16.9689**, and the grayscale version is **12.0091, 12.6345, 13.7590**.

A 20% lighter version of the original color is **30.5151, 51.1676, 20.0724**, and **5.0516, 10.1032, 1.6839** is the 20% darker color. If you saturate the color by 10%, you get **12.6843, 24.6375, 6.4820**, and if you desaturate by 10%, it is **13.2855, 24.9109, 8.1635**.

# Distribution



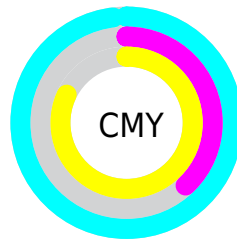
- Red (2%)
- Green (62%)
- Blue (18%)



- Red (2%)
- Yellow (49%)
- Blue (62%)



- Cyan (97%)
- Magenta (0%)
- Yellow (70%)
- Black (38%)



- Cyan (98%)
- Magenta (38%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7900, 24.6848, 6.7799 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 12.7900, 24.6848, 6.7799 by changing the saturation by 10% instead.



■ 12.7900, 24.6848,  
6.7799

■ 12.7900, 24.6848,  
6.7799

203.2323,  
276.2646, 175.3831

■ 7.3601, 15.8424,  
3.2485

■ 30.5305, 51.1454,  
20.0343

■ 3.7366, 9.4127,  
1.2229

■ 43.5719, 69.5324,  
30.5944

■ 1.5542, 5.0113,  
0.0000

■ 59.8811, 91.8697,  
44.3344

■ 0.3623, 2.2539,  
0.0000

■ 79.8235, 118.5417,  
61.6730

■ 0.0000, 0.7491,  
0.0000

■ 103.7644,  
149.9328, 83.0286

■ 0.0000, 0.0000,  
0.0000

■ 132.0693,

186.4273, 108.8198

165.1035,  
228.4098, 139.4651

■ 12.7900, 24.6848,  
6.7799

■ 12.7900, 24.6848,  
6.7799

■ 12.6843, 24.6375,  
6.4820

■ 13.2855, 24.9109,  
8.1635

■ 14.0395, 25.2621,  
9.8941

■ 15.1043, 25.7656,  
11.9949

■ 16.5120, 26.4376,  
14.4858

■ 18.2904, 27.2921,  
17.3857

■ 20.4648, 28.3416,  
20.7119

■ 23.0576, 29.5975,  
24.4809

■ 26.0901, 31.0704,  
28.7080

■ 29.5816, 32.7699,  
33.4081

# Harmonies

## Analogous

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



17.9769, 24.6848, 2.4868



12.7900, 24.6848, 6.7799



10.6196, 24.6848, 20.2573

# Triad

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



12.7900, 24.6848, 6.7799



21.0196, 24.6848, 106.1153



42.5078, 24.6848, 13.1337

# Complementary

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



12.7900, 24.6848, 6.7799



17.2389, 8.5939, 16.9689

# 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.



43.8949, 24.6848, 34.8027



12.7900, 24.6848, 6.7799



29.9631, 24.6848, 99.6455

# Square

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



12.7900, 24.6848, 6.7799



14.5484, 24.6848, 83.2616



38.8540, 24.6848, 68.8327



35.4287, 24.6848, 4.2852



# Rectangle

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



12.7900, 24.6848, 6.7799



10.6902, 24.6848, 37.1591



38.8540, 24.6848, 68.8327



43.7138, 24.6848, 18.6924

# Sweetspot

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



12.7906, 24.6858, 6.7805



40.8187, 53.2366, 42.9523



19.5767, 28.2409, 4.5340



8.7683, 11.7917, 9.0548



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



12.7906, 24.6858, 6.7805



22.9595, 44.7101, 11.3802



15.7945, 25.8874, 22.5989



6.6231, 7.4300, 7.4498



10.1734, 19.7373, 5.2700



0.1985, 0.3595, 0.1816



# Inverse Universe

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



17.2389, 8.5939, 16.9689



31.0210, 15.3665, 29.7106



14.5264, 7.5089, 2.6852



6.8251, 6.7230, 7.9300



13.7374, 6.7995, 13.4000

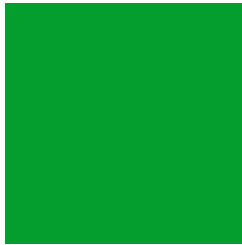


0.2625, 0.1283, 0.3284



# Previews

## White Background



This preview shows how the XYZ color 12.7900, 24.6848, 6.7799 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 12.7900, 24.6848, 6.7799 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 12.7900, 24.6848, 6.7799**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.7900, 24.6848, 6.7799.



This preview shows how white text looks on a background with the XYZ color 12.7900, 24.6848,



# 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

12.7900, 24.6848, 6.7799

### Protanopia

22.1533, 24.4438, 5.6483

### Deuteranopia

24.7372, 24.3208, 7.2615



## Tritanopia

19.1150, 24.8417, 37.0452

# Trichromacy



## Original Color

12.7900, 24.6848, 6.7799



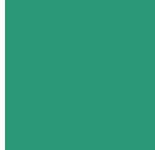
## Protanomaly

15.4463, 22.7176, 5.8563



## Deuteranomaly

16.2050, 22.2014, 6.7994



## Tritanomaly

15.5543, 24.3020, 21.3237

# Monochromacy



## Original Color

12.7900, 24.6848, 6.7799



## Achromatopsia

11.8596, 12.4772, 13.5877



## Achromatomaly

10.2788, 15.1021, 9.9627

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.7900, 24.6848, 6.7799 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(4, 158, 47)` looks like.

```
.text, #text, p{  
    color:rgb(4, 158, 47)  
}
```

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(4, 158, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(4, 158, 47) }
```

## Border

The CSS property to change the border of an element to XYZ 12.7900, 24.6848, 6.7799 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(4, 158, 47) }
```



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

```
.border{ border-color:rgb(4, 158, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(4, 158, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(4, 158, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(4, 158, 47);  
box-shadow:4px 4px 4px 4px rgb(4, 158, 47)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 12.7900, 24.6848, 6.7799 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(4, 158, 47) }
```

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

```
.background{ background-color: rgb(4, 158,  
47) }
```

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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