

# Converting Colors

XYZ(15.6101, 29.3198, 7.8542)

Have a look what the booklet for  
XYZ(15.6101, 29.3198, 7.8542)  
contains.

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# Color

**XYZ(15.6101, 29.3198,  
7.8542)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22AA32
RGB	34, 170, 50
RGB Percent	13%, 67%, 20%
CMY	0.8667, 0.3333, 0.8039
CMYK	0.80, 0.00, 0.71, 0.33
HSL	127°, 67%, 40%
HSV	127°, 80%, 67%
XYZ	15.6101, 29.3198, 7.8542
YIQ	115.6560, -42.5360, -66.1520

# Conversions

## Conversions Part 2

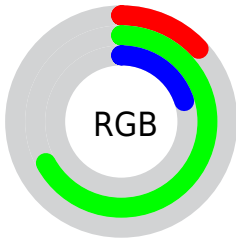
<b>Format</b>	<b>Color</b>
<b>RYB</b>	34, 156, 170
Decimal	2271794
CIELab	61.06, -58.35, 49.61
CIELCh	61, 76.591, 139.628
Yxy	29.3198, 0.2957, 0.5555
Android (android.graphics.Color)	4280461874 (0xFF22AA32)
YUV	115.6560, -32.3684, -71.6123
Hunter-Lab	54.1478, -43.2993, 29.3033

# Details

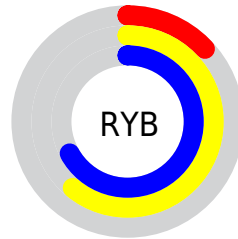
The XYZ color **15.6101, 29.3198, 7.8542** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **22.9828, 12.0235, 31.6805**, and the grayscale version is **16.6009, 17.4654, 19.0199**.

A 20% lighter version of the original color is **35.6262, 58.8605, 22.3155**, and **6.2454, 12.4908, 2.0818** is the 20% darker color. If you saturate the color by 10%, you get **14.9099, 28.9912, 6.4005**, and if you desaturate by 10%, it is **16.6948, 29.8361, 9.8807**.

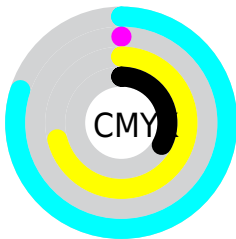
# Distribution



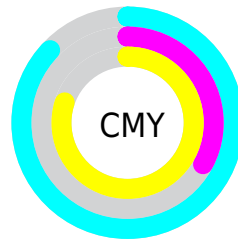
- Red (13%)
- Green (67%)
- Blue (20%)



- Red (13%)
- Yellow (61%)
- Blue (67%)



- Cyan (80%)
- Magenta (0%)
- Yellow (71%)
- Black (33%)




- Cyan (87%)
- Magenta (33%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.6101, 29.3198, 7.8542 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 15.6101, 29.3198, 7.8542 by changing the saturation by 10% instead.





 15.6101, 29.3198,  
7.8542


 15.6101, 29.3198,  
7.8542


220.3458,  
298.7209, 184.4756


 9.3378, 19.3229,  
3.9154


 35.4829, 58.5848,  
22.2136


 5.0210, 11.9038,  
1.5790


 49.8141, 78.6217,  
33.4711


 2.2945, 6.6782,  
0.2758


 67.5623, 102.7740,  
48.0054

 0.7918, 3.2617,  
0.0000

 89.0929, 131.4261,  
66.2349

 0.0000, 1.2698,  
0.0000

 114.7712,  
164.9625, 88.5781

 0.0000, 0.1177,  
0.0000

 144.9625,

 0.0000, 0.0000,

203.7675, 115.4536

0.0000

180.0322,  
248.2255, 147.2799

■ 15.6101, 29.3198,  
7.8542

■ 15.6101, 29.3198,  
7.8542

■ 14.9099, 28.9912,  
6.4005

■ 16.6948, 29.8361,  
9.8807

■ 14.5016, 28.8011,  
5.4570

■ 18.2073, 30.5588,  
12.5290

■ 20.1874, 31.5082,  
15.8450

■ 22.6695, 32.7013,  
19.8700

■ 25.6851, 34.1534,  
24.6415

■ 29.2627, 35.8785,  
30.1949

■ 33.4291, 37.8897,  
36.5630

■ 38.2092, 40.1992,  
43.7766

■ 43.6265, 42.8186,  
51.8654

# Harmonies

## Analogous

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



21.8808, 29.3198, 3.0479



15.6101, 29.3198, 7.8542



12.8811, 29.3198, 22.9804

# Triad

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



15.6101, 29.3198, 7.8542



24.5390, 29.3198, 122.8438



50.2535, 29.3198, 16.7385

# Complementary

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



15.6101, 29.3198, 7.8542



22.9828, 12.0235, 31.6805

# 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.



51.4557, 29.3198, 42.9313



15.6101, 29.3198, 7.8542



34.8575, 29.3198, 117.2684

# Square

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



15.6101, 29.3198, 7.8542



17.1530, 29.3198, 95.1607



45.2849, 29.3198, 82.7004



42.3122, 29.3198, 5.6314



# Rectangle

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



15.6101, 29.3198, 7.8542



12.8552, 29.3198, 42.0766



45.2849, 29.3198, 82.7004



51.5212, 29.3198, 23.5524

# Sweetspot

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



15.6108, 29.3210, 7.8549



50.0845, 63.6445, 50.1363



28.0164, 35.7495, 6.9371



10.6764, 13.9555, 10.4143



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



15.6108, 29.3210, 7.8549



26.4804, 52.3353, 10.2147



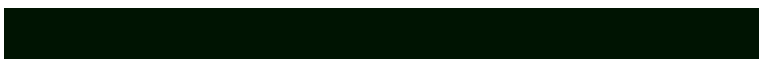
18.2972, 30.3956, 22.0011



7.4713, 8.4216, 8.2022



10.6786, 21.1902, 4.0744



0.2704, 0.5198, 0.1550



# Inverse Universe

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



22.9828, 12.0235, 31.6805



40.2282, 19.7200, 54.3815



18.8354, 10.3645, 9.8403



7.8033, 7.6512, 9.2815



16.2572, 7.9116, 21.9640



0.4059, 0.1966, 0.5888



# Previews

## White Background



This preview shows how the XYZ color 15.6101, 29.3198, 7.8542 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 15.6101, 29.3198, 7.8542 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 15.6101, 29.3198, 7.8542**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.6101, 29.3198, 7.8542.



This preview shows how white text looks on a background with the XYZ color 15.6101, 29.3198,



# 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

15.6101, 29.3198, 7.8542

### Protanopia

26.1982, 28.9418, 6.5884

### Deuteranopia

29.3663, 28.7472, 8.4159



## Tritanopia

22.8250, 29.3113, 43.4844

# Trichromacy



## Original Color

15.6101, 29.3198, 7.8542



## Protanomaly

19.5506, 27.4219, 6.8473



## Deuteranomaly

20.5470, 26.6973, 7.9410



## Tritanomaly

18.9179, 28.7450, 24.9733

# Monochromacy



## Original Color

15.6101, 29.3198, 7.8542



## Achromatopsia

16.6002, 17.4647, 19.0191



## Achromatomaly

14.5737, 20.3595, 13.2869

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.6101, 29.3198, 7.8542 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(34, 170, 50)` looks like.

```
.text, #text, p{  
    color:rgb(34, 170, 50)  
}
```

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(34, 170, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 170, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 15.6101, 29.3198, 7.8542 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(34, 170, 50) }
```



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

```
.border{ border-color:rgb(34, 170, 50) }
```

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

Here you see how a box with a 4 pixel rgb(34, 170, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 170, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 170, 50);  
box-shadow:4px 4px 4px 4px rgb(34, 170,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.6101, 29.3198, 7.8542 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 170, 50) }
```

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

```
.background{ background-color: rgb(34, 170,  
50) }
```

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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