

# Converting Colors

XYZ(15.6101, 28.9621, 7.8038)

Have a look what the booklet for  
XYZ(15.6101, 28.9621, 7.8038)  
contains.

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# Color

**XYZ(15.6781, 29.0776,  
7.8038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	29A932
RGB	41, 169, 50
RGB Percent	16%, 66%, 20%
CMY	0.8392, 0.3372, 0.8039
CMYK	0.76, 0.00, 0.70, 0.34
HSL	124°, 61%, 41%
HSV	124°, 76%, 66%
XYZ	15.6781, 29.0776, 7.8038
YIQ	117.1620, -38.0890, -64.1450

# Conversions

## Conversions Part 2

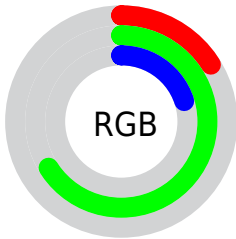
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	41, 161, 169
Decimal	2730290
CIE Lab	60.85, -57.04, 49.42
CIE LCh	61, 75.471, 139.091
Yxy	29.0776, 0.2983, 0.5532
Android (android.graphics.Color)	4280920370 (0xFF29A932)
YUV	117.1620, -33.1109, -66.7941
Hunter-Lab	53.9236, -42.4682, 29.1661

# Details

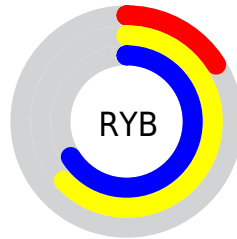
The XYZ color **15.6781, 29.0776, 7.8038** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **23.5009, 12.5593, 34.4429**, and the grayscale version is **17.0674, 17.9562, 19.5543**.

A 20% lighter version of the original color is **35.5577, 58.0178, 22.1564**, and **6.1307, 12.2615, 2.0436** is the 20% darker color. If you saturate the color by 10%, you get **14.8606, 28.6897, 6.2900**, and if you desaturate by 10%, it is **16.9027, 29.6636, 9.9452**.

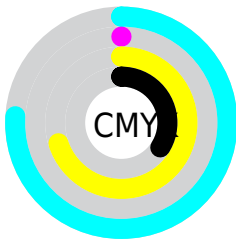
# Distribution



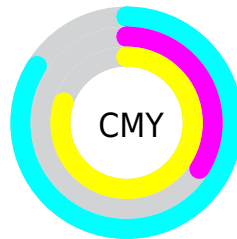
- Red (16%)
- Green (66%)
- Blue (20%)



- Red (16%)
- Yellow (63%)
- Blue (66%)



- Cyan (76%)
- Magenta (0%)
- Yellow (70%)
- Black (34%)



- Cyan (84%)
- Magenta (34%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.6781, 29.0776, 7.8038 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 15.6781, 29.0776, 7.8038 by changing the saturation by 10% instead.



■ 15.6781, 29.0776,  
7.8038

■ 15.6781, 29.0776,  
7.8038

220.7426,  
297.5809, 184.0617

■ 9.3861, 19.1395,  
3.8837

■ 35.6004, 58.2004,  
22.1127

■ 5.0530, 11.7711,  
1.5618

■ 49.9614, 78.1538,  
33.3386

■ 2.3134, 6.5880,  
0.2633

■ 67.7428, 102.2146,  
47.8368

■ 0.8015, 3.2058,  
0.0000

■ 89.3099, 130.7670,  
66.0258

■ 0.0000, 1.2401,  
0.0000

■ 115.0281,  
164.1954, 88.3243

■ 0.0000, 0.0941,  
0.0000

■ 145.2627,

■ 0.0000, 0.0000,

202.8843, 115.1508

0.0000

180.3791,  
247.2180, 146.9237

■ 15.6781, 29.0776,  
7.8038

■ 15.6781, 29.0776,  
7.8038

■ 14.8606, 28.6897,  
6.2900

■ 16.9027, 29.6636,  
9.9452

■ 14.3926, 28.4691,  
5.3340

■ 18.5759, 30.4654,  
12.7701

■ 14.2542, 28.4033,  
5.0754

■ 20.7365, 31.5027,  
16.3308

■ 23.4184, 32.7919,  
20.6737

■ 26.6527, 34.3482,  
25.8415

■ 30.4679, 36.1854,  
31.8737

■ 34.8904, 38.3164,  
38.8075

■ 39.9453, 40.7534,  
46.6776

■ 45.6560, 43.5076,  
55.5172

# Harmonies

## Analogous

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



21.9080, 29.0776, 3.1167



15.6781, 29.0776, 7.8038



12.9286, 29.0776, 22.4857

# Triad

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



15.6781, 29.0776, 7.8038



24.2142, 29.0776, 120.0349



49.6084, 29.0776, 17.0578

# Complementary

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



15.6781, 29.0776, 7.8038



23.5009, 12.5593, 34.4429

# 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.



50.6458, 29.0776, 43.0430



15.6781, 29.0776, 7.8038



34.2876, 29.0776, 115.2430

# Square

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



15.6781, 29.0776, 7.8038



17.0206, 29.0776, 92.6730



44.5131, 29.0776, 81.9478



41.9457, 29.0776, 5.8489



# Rectangle

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



15.6781, 29.0776, 7.8038



12.8660, 29.0776, 41.0006



44.5131, 29.0776, 81.9478



50.8019, 29.0776, 23.8590

# Sweetspot

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



15.6788, 29.0788, 7.8045



49.2280, 62.2337, 48.6536



29.1800, 36.0592, 7.5200



10.2476, 13.3322, 9.8390



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



15.6788, 29.0788, 7.8045



25.9785, 51.0799, 9.9866



18.1138, 30.0528, 20.6273



7.4574, 8.4160, 8.1286



10.6312, 21.1713, 3.8249



0.2651, 0.5177, 0.1272



# Inverse Universe

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



23.5009, 12.5593, 34.4429



40.6005, 20.0182, 59.6480



19.2887, 10.8744, 12.2620



7.8188, 7.6574, 9.3630



16.7457, 8.1070, 24.5363



0.4139, 0.1999, 0.6313



# Previews

## White Background



This preview shows how the XYZ color 15.6781, 29.0776, 7.8038 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 15.6781, 29.0776, 7.8038 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 15.6781, 29.0776, 7.8038**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.6781, 29.0776, 7.8038.



This preview shows how white text looks on a background with the XYZ color 15.6781, 29.0776,



# 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

15.6781, 29.0776, 7.8038

### Protanopia

25.8378, 28.5261, 6.5272

### Deuteranopia

29.1310, 28.6259, 8.4049



## Tritanopia

22.7194, 29.0137, 42.9308

# Trichromacy



## Original Color

15.6781, 29.0776, 7.8038



## Protanomaly

19.6565, 27.2304, 6.8048



## Deuteranomaly

20.8508, 26.8539, 7.9553



## Tritanomaly

18.9311, 28.4968, 24.5813

# Monochromacy



## Original Color

15.6781, 29.0776, 7.8038



## Achromatopsia

16.9083, 17.7888, 19.3720



## Achromatomaly

14.8998, 20.5225, 13.5319

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.6781, 29.0776, 7.8038 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(41, 169, 50)` looks like.

```
.text, #text, p{  
    color:rgb(41, 169, 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(41, 169, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 169, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 15.6781, 29.0776, 7.8038 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(41, 169, 50) }
```



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

```
.border{ border-color:rgb(41, 169, 50) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 169, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 169, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 169, 50);  
box-shadow:4px 4px 4px 4px rgb(41, 169,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.6781, 29.0776, 7.8038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 169, 50) }
```

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

```
.background{ background-color: rgb(41, 169,  
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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