

# Converting Colors

XYZ(29.6721, 33.6712, 6.3018)

Have a look what the booklet for  
XYZ(29.6721, 33.6712, 6.3018)  
contains.

<b>XYZ(29.6721, 33.6712, 6.3018)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(29.6721, 33.6712,  
6.3018)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AC9F20
RGB	172, 159, 32
RGB Percent	67%, 62%, 13%
CMY	0.3255, 0.3765, 0.8745
CMYK	0.00, 0.08, 0.81, 0.33
HSL	54°, 69%, 40%
HSV	54°, 81%, 67%
XYZ	29.6721, 33.6712, 6.3018
YIQ	148.4090, 48.5150, -36.7410

# Conversions

## Conversions Part 2

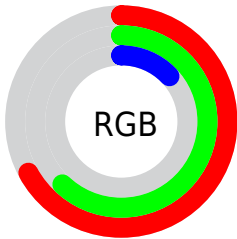
Format	Color
<a href="#">RYB</a>	<a href="#">46, 172, 32</a>
Decimal	<a href="#">11312928</a>
CIELab	<a href="#">64.70, -8.66, 61.78</a>
CIELCh	<a href="#">65, 62.381, 97.980</a>
Yxy	<a href="#">33.6712, 0.4260, 0.4835</a>
Android (android.graphics.Color)	<a href="#">4289503008</a> ( <a href="#">0xFFAC9F20</a> )
YUV	<a href="#">148.4090, -57.3896, 20.6893</a>
Hunter-Lab	<a href="#">58.0269, -10.2709, 34.1798</a>

# Details

The XYZ color **29.6721, 33.6712, 6.3018** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **8.9806, 5.1625, 39.5526**, and the grayscale version is **28.5386, 30.0248, 32.6971**.

A 20% lighter version of the original color is **58.5524, 65.2987, 18.9691**, and **12.5650, 14.4381, 2.1246** is the 20% darker color. If you saturate the color by 10%, you get **29.2241, 33.0568, 5.2850**, and if you desaturate by 10%, it is **30.2472, 34.3447, 7.9635**.

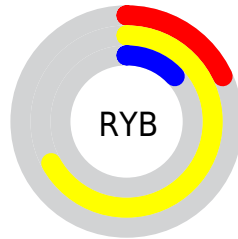
# Distribution



Red (67%)

Green (62%)

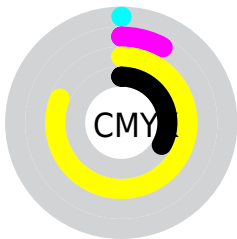
Blue (13%)



Red (18%)

Yellow (67%)

Blue (13%)

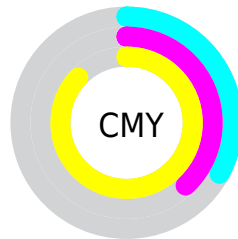


Cyan (0%)

Magenta (8%)

Yellow (81%)

Black (33%)



Cyan (33%)

Magenta (38%)


Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.6721, 33.6712, 6.3018 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 29.6721, 33.6712, 6.3018 by changing the saturation by 10% instead.





 29.6721, 33.6712,  
6.3018

 29.6721, 33.6712,  
6.3018


292.3104,  
318.6634, 171.1337


 19.7367, 22.6411,  
2.9577


 58.5334, 65.4220,  
19.0425

 12.3109, 14.3287,  
1.0731


 78.1900, 86.9116,  
29.2763

 7.0295, 8.3497,  
0.0000


 101.8178,  
112.6564, 42.6436

 3.5271, 4.3195,  
0.0000

 129.7819,  
143.0409, 59.5632

 1.4382, 1.8538,  
0.0000

 162.4479,  
178.4494, 80.4534

 0.2832, 0.5204,  
0.0000

 200.1811,

 0.0000, 0.0000,

219.2665, 105.7329

0.0000

243.3468,  
265.8763, 135.8201

■ 29.6721, 33.6712,  
6.3018

■ 29.6721, 33.6712,  
6.3018

■ 29.2241, 33.0568,  
5.2850

■ 30.2472, 34.3447,  
7.9635

■ 28.9073, 32.5589,  
4.7609

■ 30.9637, 35.0792,  
10.3562

■ 31.8366, 35.8819,  
13.5547

■ 32.8783, 36.7579,  
17.6241

■ 34.0999, 37.7116,  
22.6230

■ 35.5115, 38.7471,  
28.6048

■ 37.1225, 39.8681,  
35.6189

■ 38.9417, 41.0783,  
43.7112

■ 40.9773, 42.3808,  
52.9250

# Harmonies

## Analogous

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



38.9026, 33.6712, 7.3162



29.6721, 33.6712, 6.3018



22.5341, 33.6712, 9.9118

# Triad

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



29.6721, 33.6712, 6.3018



20.2600, 33.6712, 76.1496



50.7661, 33.6712, 58.4318

# Complementary

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



29.6721, 33.6712, 6.3018



8.9806, 5.1625, 39.5526

# 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.



43.8115, 33.6712, 90.8832



29.6721, 33.6712, 6.3018



25.9724, 33.6712, 104.0080

# Square

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



29.6721, 33.6712, 6.3018



17.8013, 33.6712, 43.9430



34.4539, 33.6712, 110.3855



52.2620, 33.6712, 30.2336



# Rectangle

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



29.6721, 33.6712, 6.3018



19.5123, 33.6712, 16.2397



34.4539, 33.6712, 110.3855



48.9341, 33.6712, 69.5147

# Sweetspot

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



29.6729, 33.6728, 6.3025



63.6081, 69.7067, 48.4028



18.0230, 10.0012, 3.5658



13.6309, 15.0077, 9.7025



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.



29.6729, 33.6728, 6.3025



52.4789, 59.1006, 8.7705



22.2159, 33.3223, 6.6278



8.5982, 9.2012, 8.5362



21.5332, 24.2720, 3.5500



0.6171, 0.7113, 0.1048



# Inverse Universe

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



8.9806, 5.1625, 39.5526



13.9106, 6.1235, 71.2546



11.9878, 6.0867, 39.5725



7.6365, 7.8724, 10.0697



5.6979, 2.5297, 29.2325



0.1773, 0.1079, 0.8195



# Previews

## White Background



This preview shows how the XYZ color 29.6721, 33.6712, 6.3018 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 29.6721, 33.6712, 6.3018 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.6721, 33.6712, 6.3018**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.6721, 33.6712, 6.3018.



This preview shows how white text looks on a background with the XYZ color 29.6721, 33.6712,



# 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

29.6721, 33.6712, 6.3018

### Protanopia

30.4491, 33.5653, 6.2404

### Deuteranopia

34.1233, 33.5051, 6.5024



## Tritanopia

35.9911, 33.5416, 37.8350

# Trichromacy



## Original Color

29.6721, 33.6712, 6.3018

## Protanomaly

30.1668, 33.6720, 6.2759

## Deuteranomaly

32.4487, 33.6012, 6.4445

## Tritanomaly

32.5690, 33.1137, 20.2978

# Monochromacy



## Original Color

29.6721, 33.6712, 6.3018

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

27.7344, 30.6652, 18.0929

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.6721, 33.6712, 6.3018 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(172, 159, 32)` looks like.

```
.text, #text, p{  
    color:rgb(172, 159, 32)  
}
```

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(172, 159, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 159, 32) }
```

## Border

The CSS property to change the border of an element to XYZ 29.6721, 33.6712, 6.3018 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(172, 159, 32) }
```



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

```
.border{ border-color:rgb(172, 159, 32) }
```

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

Here you see how a box with a 4 pixel rgb(172, 159, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 159, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 159, 32);  
box-shadow:4px 4px 4px 4px rgb(172, 159,  
32) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.6721, 33.6712, 6.3018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 159, 32) }
```

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

```
.background{ background-color: rgb(172,  
159, 32) }
```

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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