

# Converting Colors

XYZ(29.7946, 51.2377, 34.4648)

Have a look what the booklet for  
XYZ(29.7946, 51.2377, 34.4648)  
contains.

<b>XYZ(29.7632, 51.2235, 34.3050)</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(29.7632, 51.2235,  
34.3050)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12D88F
RGB	18, 216, 143
RGB Percent	7%, 85%, 56%
CMY	0.9294, 0.1529, 0.4392
CMYK	0.92, 0.00, 0.34, 0.15
HSL	158°, 85%, 46%
HSV	158°, 92%, 85%
XYZ	29.7632, 51.2235, 34.3050
YIQ	148.4760, -94.5750, -64.6790

# Conversions

## Conversions Part 2

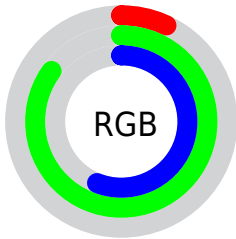
Format	Color
<a href="#">RYB</a>	<a href="#">18, 139, 216</a>
Decimal	<a href="#">1235087</a>
CIELab	<a href="#">76.81, -60.53, 23.93</a>
CIELCh	<a href="#">77, 65.087, 158.425</a>
Yxy	<a href="#">51.2235, 0.2582, 0.4443</a>
Android (android.graphics.Color)	<a href="#">4279425167</a> ( <a href="#">0xFF12D88F</a> )
YUV	<a href="#">148.4760, -2.6997, -114.4275</a>
Hunter-Lab	<a href="#">71.5706, -51.0179, 21.6807</a>

# Details

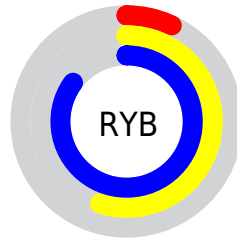
The XYZ color **29.7632, 51.2235, 34.3050** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **30.4253, 15.7880, 11.3442**, and the grayscale version is **28.3886, 29.8670, 32.5252**.

A 20% lighter version of the original color is **52.0224, 78.7394, 65.2797**, and **14.5026, 25.9143, 14.3628** is the 20% darker color. If you saturate the color by 10%, you get **29.0265, 50.9015, 31.7225**, and if you desaturate by 10%, it is **31.0000, 51.7902, 37.6265**.

# Distribution



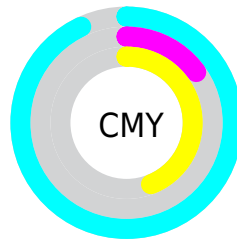
- Red (7%)
- Green (85%)
- Blue (56%)



- Red (7%)
- Yellow (55%)
- Blue (85%)



- Cyan (92%)
- Magenta (0%)
- Yellow (34%)
- Black (15%)




- Cyan (93%)
- Magenta (15%)
- Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.7632, 51.2235, 34.3050 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 29.7632, 51.2235, 34.3050 by changing the saturation by 10% instead.





 29.7632, 51.2235,  
34.3050


 29.7632, 51.2235,  
34.3050


292.7288,  
391.4315, 336.3005


 19.8061, 36.3865,  
22.8488


 58.6767, 91.9851,  
67.5470

 12.3616, 24.7329,  
14.2776


 78.3638, 118.6784,  
90.1698


 7.0644, 15.8781,  
8.1731


 102.0249,  
150.0927, 117.3519

 3.5491, 9.4380,  
4.1165

 130.0255,  
186.6123, 149.5118

 1.4504, 5.0279,  
1.6895

 162.7308,  
228.6215, 187.0681

 0.2917, 2.2637,  
0.3535

200.5062,

 0.0000, 0.7544,

276.5049, 230.4393

0.0000

243.7171,  
330.6468, 280.0439

■ 0.0000, 0.0000,  
0.0000

■ 29.7632, 51.2235,  
34.3050

■ 29.7632, 51.2235,  
34.3050

■ 29.0265, 50.9015,  
31.7225

■ 31.0000, 51.7902,  
37.6265

■ 32.7463, 52.6132,  
41.1988

■ 35.0729, 53.7302,  
45.0307

■ 38.0378, 55.1710,  
49.1292

■ 41.6918, 56.9617,  
53.5007

■ 46.0803, 59.1257,  
58.1514

■ 51.2449, 61.6843,  
63.0872

■ 57.2237, 64.6570,  
68.3136

■ 64.0525, 68.0622,  
73.8362

# Harmonies

## Analogous

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



35.3610, 51.2235, 17.6423



29.7632, 51.2235, 34.3050



28.7602, 51.2235, 66.3509

# Triad

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



29.7632, 51.2235, 34.3050



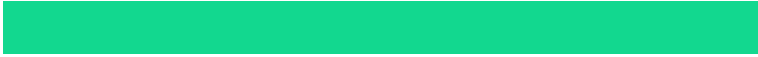
52.2517, 51.2235, 153.8123



69.7762, 51.2235, 23.2688

# Complementary

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



29.7632, 51.2235, 34.3050



30.4253, 15.7880, 11.3442

# 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.



76.1787, 51.2235, 46.3849



29.7632, 51.2235, 34.3050



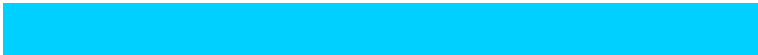
64.9983, 51.2235, 127.8821

# Square

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



29.7632, 51.2235, 34.3050



40.4608, 51.2235, 146.0155



74.2961, 51.2235, 84.7279



57.9575, 51.2235, 13.4063

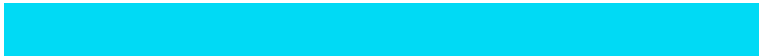


# Rectangle

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



29.7632, 51.2235, 34.3050



30.6359, 51.2235, 94.8450



74.2961, 51.2235, 84.7279



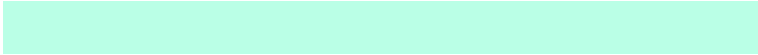
72.7169, 51.2235, 29.2461

# Sweetspot

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



29.7645, 51.2255, 34.3062



70.2750, 87.6694, 87.7973



29.2728, 51.5321, 8.9766



14.5068, 18.5001, 18.2692



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



29.7645, 51.2255, 34.3062



42.1912, 74.0925, 45.7862



31.6937, 43.1845, 71.6332



12.5889, 14.0266, 14.9157



17.2337, 30.1488, 19.0582



1.0788, 1.8342, 1.3565



# Inverse Universe

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



30.4253, 15.7880, 11.3442



43.2613, 22.0685, 12.5741



29.2260, 16.2367, 2.1664



12.6107, 12.4958, 13.8900



17.6590, 8.9999, 5.5082

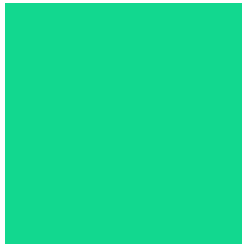


1.1044, 0.5586, 0.5392



# Previews

## White Background



This preview shows how the XYZ color 29.7632, 51.2235, 34.3050 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 29.7632, 51.2235, 34.3050 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

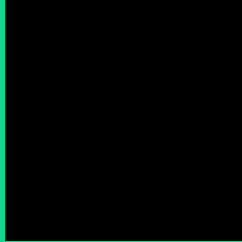
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

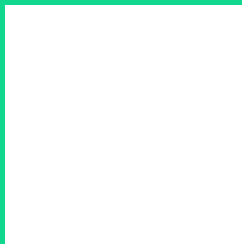
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.7632, 51.2235, 34.3050**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.7632, 51.2235, 34.3050.



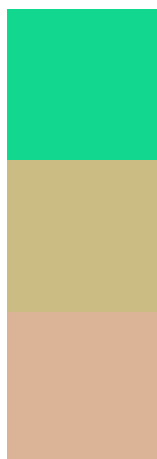
This preview shows how white text looks on a background with the XYZ color 29.7632, 51.2235,



# 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

29.7632, 51.2235, 34.3050

### Protanopia

46.7086, 50.3016, 28.7201

### Deuteranopia

51.1206, 49.9370, 36.2226



## Tritanopia

38.3711, 51.0068, 77.6350

# Trichromacy



## Original Color

29.7632, 51.2235, 34.3050



## Protanomaly

34.7206, 47.3717, 30.2354



## Deuteranomaly

36.2693, 46.3890, 35.0594



## Tritanomaly

34.3597, 50.8005, 59.0335

# Monochromacy



## Original Color

29.7632, 51.2235, 34.3050



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

25.4987, 34.7292, 32.5536

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.7632, 51.2235, 34.3050 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(18, 216, 143)` looks like.

```
.text, #text, p{  
    color:rgb(18, 216, 143)  
}
```

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(18, 216, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 216, 143) }
```

## Border

The CSS property to change the border of an element to XYZ 29.7632, 51.2235, 34.3050 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(18, 216, 143) }
```



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

```
.border{ border-color:rgb(18, 216, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 216, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 216, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 216, 143);  
box-shadow:4px 4px 4px 4px rgb(18, 216,  
143) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.7632, 51.2235, 34.3050 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 216, 143) }
```

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

```
.background{ background-color: rgb(18, 216,  
143) }
```

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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