

# Converting Colors

XYZ(29.9920, 50.0060, 37.1091)

Have a look what the booklet for  
XYZ(29.9920, 50.0060, 37.1091)  
contains.

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# Color

**XYZ(30.0622, 50.1838,  
36.9562)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25D596
RGB	37, 213, 150
RGB Percent	15%, 84%, 59%
CMY	0.8549, 0.1647, 0.4118
CMYK	0.83, 0.00, 0.30, 0.16
HSL	159°, 70%, 49%
HSV	159°, 83%, 84%
XYZ	30.0622, 50.1838, 36.9562
YIQ	153.1940, -84.6730, -56.9050

# Conversions

## Conversions Part 2

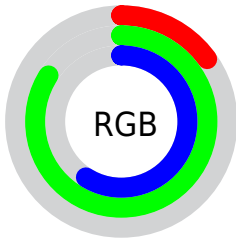
<b>Format</b>	<b>Color</b>
<b>RYB</b>	37, 144, 213
Decimal	2479510
CIELab	76.18, -56.67, 19.42
CIELCh	76, 59.905, 161.080
Yxy	50.1838, 0.2565, 0.4282
Android (android.graphics.Color)	4280669590 (0xFF25D596)
YUV	153.1940, -1.5746, -101.9021
Hunter-Lab	70.8405, -48.2219, 18.6579

# Details

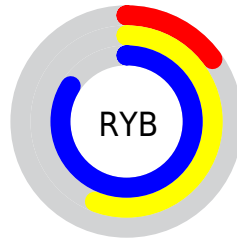
The XYZ color **30.0622, 50.1838, 36.9562** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **30.4041, 16.3905, 13.6200**, and the grayscale version is **30.3974, 31.9805, 34.8267**.

A 20% lighter version of the original color is **53.5985, 79.4570, 69.6385**, and **14.3091, 25.0148, 15.8786** is the 20% darker color. If you saturate the color by 10%, you get **28.9147, 49.6622, 33.8017**, and if you desaturate by 10%, it is **31.6975, 50.9548, 40.3443**.

# Distribution



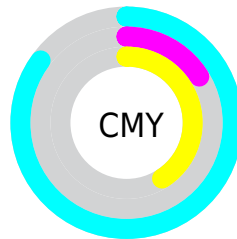
- Red (15%)
- Green (84%)
- Blue (59%)



- Red (15%)
- Yellow (56%)
- Blue (84%)



- Cyan (83%)
- Magenta (0%)
- Yellow (30%)
- Black (16%)




- Cyan (85%)
- Magenta (16%)
- Yellow (41%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.0622, 50.1838, 36.9562 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 30.0622, 50.1838, 36.9562 by changing the saturation by 10% instead.





 30.0622, 50.1838,  
36.9562


 30.0622, 50.1838,  
36.9562


294.0989,  
387.3843, 348.2838


 20.0341, 35.5595,  
24.8781


 59.1465, 90.4471,  
71.6910

 12.5282, 24.0942,  
15.7680


 78.9334, 116.8549,  
95.1847


 7.1793, 15.4035,  
9.2076


 102.7039,  
147.9593, 123.3207

 3.6218, 9.1030,  
4.7782

 130.8235,  
184.1447, 156.5176

 1.4905, 4.8085,  
2.0613

 163.6574,  
225.7955, 195.1937

 0.3193, 2.1353,  
0.5926

201.5711,

 0.0000, 0.6844,

273.2961, 239.7678

0.0000

244.9298,  
327.0309, 290.6583

■ 0.0000, 0.0000,  
0.0000

■ 30.0622, 50.1838,  
36.9562

■ 30.0622, 50.1838,  
36.9562

■ 28.9147, 49.6622,  
33.8017

■ 31.6975, 50.9548,  
40.3443

■ 28.2929, 49.3894,  
31.6166

■ 33.8849, 52.0045,  
43.9696

■ 36.6826, 53.3640,  
47.8396

■ 40.1402, 55.0589,  
51.9603

■ 44.3019, 57.1117,  
56.3372

■ 49.2081, 59.5434,  
60.9758

■ 54.8959, 62.3729,  
65.8812

■ 61.4001, 65.6180,  
71.0583

■ 68.7529, 69.2955,  
76.5118

# Harmonies

## Analogous

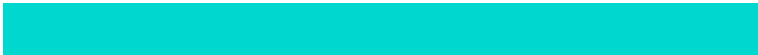
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.8799, 50.1838, 20.0470



30.0622, 50.1838, 36.9562



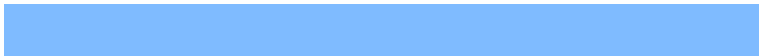
29.5044, 50.1838, 67.3962

# Triad

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



30.0622, 50.1838, 36.9562



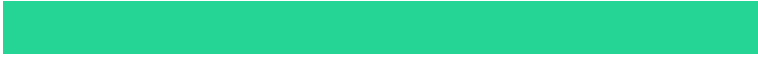
51.9655, 50.1838, 140.4693



65.8787, 50.1838, 23.2670

# Complementary

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



30.0622, 50.1838, 36.9562



30.4041, 16.3905, 13.6200

# 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.



72.1569, 50.1838, 43.6071



30.0622, 50.1838, 36.9562



63.3254, 50.1838, 115.7013

# Square

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



30.0622, 50.1838, 36.9562



41.0392, 50.1838, 136.4059



71.1555, 50.1838, 77.2240



55.0411, 50.1838, 14.5567

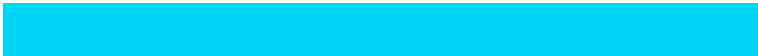


# Rectangle

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



30.0622, 50.1838, 36.9562



31.5044, 50.1838, 93.1462



71.1555, 50.1838, 77.2240



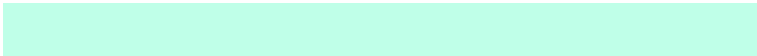
68.6636, 50.1838, 28.5494

# Sweetspot

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



30.0635, 50.1858, 36.9574



71.8998, 88.4652, 89.7636



29.5566, 50.5218, 9.9448



14.8243, 18.6550, 18.6817



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.



30.0635, 50.1858, 36.9574



42.5498, 74.2396, 47.5083



31.0873, 41.8245, 69.3876



12.5947, 14.0289, 14.9461



17.3323, 30.1882, 19.5771



1.0843, 1.8364, 1.3854



# Inverse Universe

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



30.4041, 16.3905, 13.6200



43.2399, 22.1042, 12.3248



29.4164, 17.5618, 3.5902



12.6051, 12.4935, 13.8606



17.6085, 8.9797, 5.2426

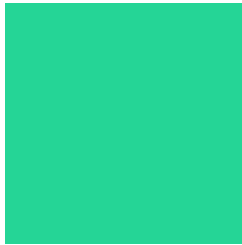


1.1010, 0.5572, 0.5211



# Previews

## White Background



This preview shows how the XYZ color 30.0622, 50.1838, 36.9562 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 30.0622, 50.1838, 36.9562 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

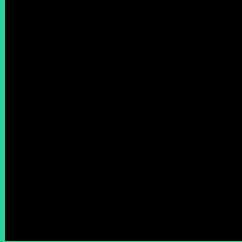
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 30.0622, 50.1838, 36.9562**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.0622, 50.1838, 36.9562.



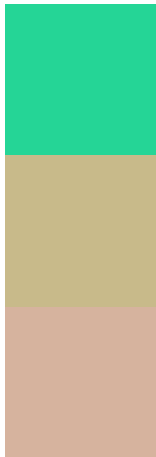
This preview shows how white text looks on a background with the XYZ color 30.0622, 50.1838,



# 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

30.0622, 50.1838, 36.9562

### Protanopia

45.9658, 49.2321, 31.1249

### Deuteranopia

50.0232, 49.0050, 39.1701



## Tritanopia

37.8685, 50.0685, 76.0749

# Trichromacy



## Original Color

30.0622, 50.1838, 36.9562



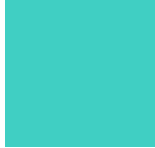
## Protanomaly

35.6069, 47.0956, 32.8049



## Deuteranomaly

37.1249, 46.1122, 37.9542



## Tritanomaly

34.2775, 49.6558, 59.4077

# Monochromacy



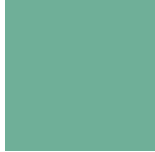
## Original Color

30.0622, 50.1838, 36.9562



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

27.5530, 36.3065, 35.2614

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.0622, 50.1838, 36.9562 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(37, 213, 150)` looks like.

```
.text, #text, p{  
    color:rgb(37, 213, 150)  
}
```

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(37, 213, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 213, 150) }
```

## Border

The CSS property to change the border of an element to XYZ 30.0622, 50.1838, 36.9562 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(37, 213, 150) }
```



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

```
.border{ border-color:rgb(37, 213, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 213, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(37, 213, 150); -webkit-box-shadow:4px 4px 4px 4px rgb(37, 213, 150); box-shadow:4px 4px 4px 4px rgb(37, 213, 150) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.0622, 50.1838, 36.9562 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 213, 150) }
```

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

```
.background{ background-color: rgb(37, 213,  
150) }
```

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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