

# Converting Colors

XYZ(17.6675, 36.0859, 30.6124)

Have a look what the booklet for  
XYZ(17.6675, 36.0859, 30.6124)  
contains.

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# Color

**XYZ(23.2910, 39.1257,  
30.7505)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BF8B
RGB	0, 191, 139
RGB Percent	0%, 75%, 55%
CMY	0.9999, 0.2510, 0.4549
CMYK	1.00, 0.00, 0.27, 0.25
HSL	164°, 100%, 37%
HSV	164°, 100%, 75%
XYZ	23.2910, 39.1257, 30.7505
YIQ	127.9630, -97.1440, -56.6640

# Conversions

## Conversions Part 2

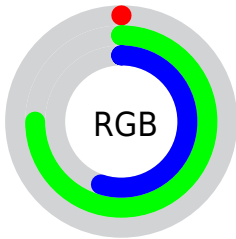
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 111, 191
Decimal	49035
CIELab	68.84, -52.81, 15.06
CIELCh	69, 54.919, 164.083
Yxy	39.1257, 0.2500, 0.4200
Android (android.graphics.Color)	4278239115 (0xFF00BF8B)
YUV	127.9630, 5.4412, -112.2236
Hunter-Lab	62.5505, -42.9981, 14.6378

# Details

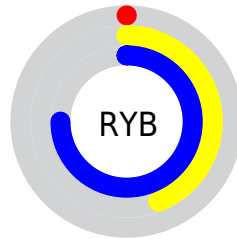
The XYZ color **23.2910, 39.1257, 30.7505** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **22.1072, 11.3253, 4.2721**, and the grayscale version is **20.5133, 21.5816, 23.5024**.

A 20% lighter version of the original color is **48.2300, 73.5817, 62.1128**, and **10.6073, 18.3296, 12.4301** is the 20% darker color. If you saturate the color by 10%, you get **23.2914, 39.1270, 30.7494**, and if you desaturate by 10%, it is **23.9519, 39.4224, 32.8136**.

# Distribution



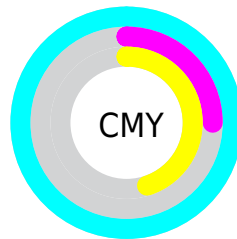
- Red (0%)
- Green (75%)
- Blue (55%)



- Red (0%)
- Yellow (44%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (27%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2910, 39.1257, 30.7505 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 23.2910, 39.1257, 30.7505 by changing the saturation by 10% instead.





 23.2910, 39.1257,  
30.7505


 23.2910, 39.1257,  
30.7505


261.7236,  
342.4246, 319.7027


 14.9304, 26.8575,  
20.1521


 48.3339, 73.8303,  
61.9220


 8.8566, 17.4663,  
12.3205


 65.7468, 97.0355,  
83.3322


 4.7041, 10.5675,  
6.8371


 86.9080, 124.6552,  
109.1833

 2.1077, 5.7768,  
3.2836

 112.1826,  
157.0738, 139.8940

 0.6934, 2.7098,  
1.2412

 141.9362,  
194.6756, 175.8827

 0.0000, 0.9822,  
0.0128

176.5340,

 0.0000, 0.0000,

237.8451, 217.5681

0.0000

216.3413,  
286.9666, 265.3686

■ 23.2910, 39.1257,  
30.7505

■ 23.2910, 39.1257,  
30.7505

■ 23.2914, 39.1270,  
30.7494

■ 23.9519, 39.4224,  
32.8136

■ 24.8960, 39.8621,  
34.9847

■ 26.2203, 40.4955,  
37.2706

■ 27.9736, 41.3480,  
39.6746

■ 30.1971, 42.4407,  
42.2000

■ 32.9272, 43.7923,  
44.8496

■ 36.1965, 45.4196,  
47.6261

■ 40.0350, 47.3381,  
50.5321

■ 44.4702, 49.5618,  
53.5699

# Harmonies

## Analogous

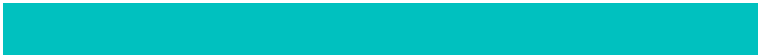
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



26.7075, 39.1257, 16.5938



23.2910, 39.1257, 30.7505



23.1895, 39.1257, 55.3752

# Triad

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



23.2910, 39.1257, 30.7505



41.4152, 39.1257, 108.1461



50.5678, 39.1257, 17.1800

# Complementary

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



23.2910, 39.1257, 30.7505



22.1072, 11.3253, 4.2721

# 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.



55.9202, 39.1257, 31.9603



23.2910, 39.1257, 30.7505



50.1036, 39.1257, 87.1997

# Square

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



23.2910, 39.1257, 30.7505



32.7797, 39.1257, 107.4077



55.7382, 39.1257, 57.1618



41.9744, 39.1257, 11.1133



# Rectangle

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



23.2910, 39.1257, 30.7505



24.9660, 39.1257, 75.5436



55.7382, 39.1257, 57.1618



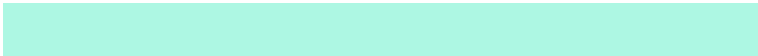
52.8614, 39.1257, 20.9730

# Sweetspot

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



23.2921, 39.1272, 30.7514



64.5188, 81.1907, 85.0491



20.1600, 38.0509, 6.2826



13.5967, 17.5442, 18.2048



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



23.2921, 39.1272, 30.7514



41.6062, 70.0311, 54.5050



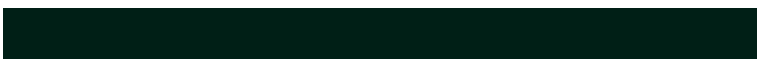
20.2509, 25.4545, 53.1379



9.6947, 10.7640, 11.6418



15.3414, 25.7269, 20.3926



0.6270, 1.0182, 0.9362



# Inverse Universe

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



22.1072, 11.3253, 4.2721



39.5050, 20.2473, 7.1912



22.2936, 12.6904, 1.2751



9.6340, 9.5779, 10.4618



14.5572, 7.4540, 2.9616

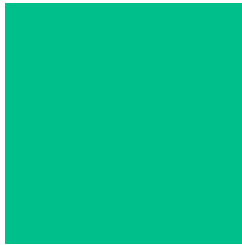


0.5987, 0.3034, 0.2663



# Previews

## White Background



This preview shows how the XYZ color 23.2910, 39.1257, 30.7505 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 23.2910, 39.1257, 30.7505 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

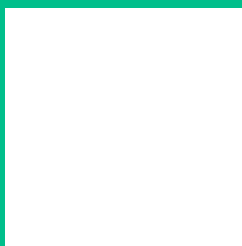
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 23.2910, 39.1257, 30.7505**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2910, 39.1257, 30.7505.



This preview shows how white text looks on a background with the XYZ color 23.2910, 39.1257,



# 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

23.2910, 39.1257, 30.7505

### Protanopia

35.8926, 38.2959, 25.9222

### Deuteranopia

39.1684, 38.5122, 32.5633



## Tritanopia

29.1764, 39.0010, 59.4163

# Trichromacy



## Original Color

23.2910, 39.1257, 30.7505



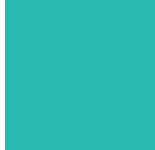
## Protanomaly

26.3049, 35.8366, 27.3605



## Deuteranomaly

27.5956, 35.5532, 31.3946



## Tritanomaly

26.3698, 38.7433, 47.6833

# Monochromacy



## Original Color

23.2910, 39.1257, 30.7505



## Achromatopsia

20.5175, 21.5861, 23.5072



## Achromatomaly

18.6248, 25.5485, 25.7795

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2910, 39.1257, 30.7505 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(0, 191, 139)` looks like.

```
.text, #text, p{  
    color:rgb(0, 191, 139)  
}
```

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(0, 191, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 191, 139) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2910, 39.1257, 30.7505 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(0, 191, 139) }
```



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

```
.border{ border-color:rgb(0, 191, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 191, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 191, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 191, 139);  
box-shadow:4px 4px 4px 4px rgb(0, 191,  
139) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2910, 39.1257, 30.7505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 191, 139) }
```

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

```
.background{ background-color: rgb(0, 191,  
139) }
```

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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