

# Converting Colors

XYZ(15.7392, 33.7930, 31.0961)

Have a look what the booklet for  
XYZ(15.7392, 33.7930, 31.0961)  
contains.

<b>XYZ(22.6528, 37.4936, 31.6343)</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(22.6528, 37.4936,  
31.6343)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BB8E
RGB	0, 187, 142
RGB Percent	0%, 73%, 56%
CMY	0.9999, 0.2667, 0.4431
CMYK	1.00, 0.00, 0.24, 0.27
HSL	166°, 100%, 37%
HSV	166°, 100%, 73%
XYZ	22.6528, 37.4936, 31.6343
YIQ	125.9570, -97.0070, -53.6390

# Conversions

## Conversions Part 2

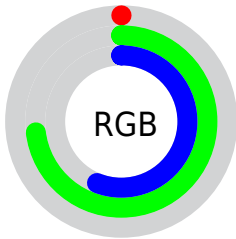
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 187
Decimal	48014
CIELab	67.65, -50.54, 11.75
CIELCh	68, 51.889, 166.908
Yxy	37.4936, 0.2468, 0.4085
Android (android.graphics.Color)	4278238094 (0xFF00BB8E)
YUV	125.9570, 7.9092, -110.4643
Hunter-Lab	61.2320, -41.1199, 12.2314

# Details

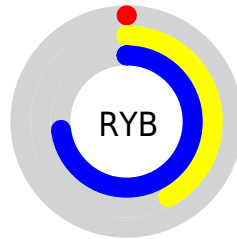
The XYZ color **22.6528, 37.4936, 31.6343** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **20.9685, 10.7553, 3.4557**, and the grayscale version is **19.8167, 20.8488, 22.7043**.

A 20% lighter version of the original color is **47.2443, 71.2283, 63.4830**, and **10.1830, 17.2752, 12.9230** is the 20% darker color. If you saturate the color by 10%, you get **22.6532, 37.4948, 31.6332**, and if you desaturate by 10%, it is **23.2616, 37.7685, 33.4635**.

# Distribution



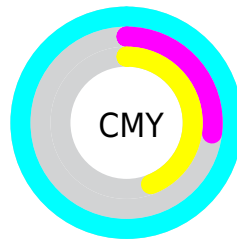
- Red (0%)
- Green (73%)
- Blue (56%)



- Red (0%)
- Yellow (42%)
- Blue (73%)



- Cyan (100%)
- Magenta (0%)
- Yellow (24%)
- Black (27%)



- Cyan (100%)
- Magenta (27%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.6528, 37.4936, 31.6343 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 22.6528, 37.4936, 31.6343 by changing the saturation by 10% instead.





 22.6528, 37.4936,  
31.6343


 22.6528, 37.4936,  
31.6343


258.5054,  
335.4426, 323.8912


 14.4566, 25.5899,  
20.8198

 47.2935, 71.3313,  
63.3286


 8.5228, 16.5171,  
12.8024


 64.4687, 94.0341,  
85.0455


 4.4858, 9.8908,  
7.1635


 85.3676, 121.1053,  
111.2336

 1.9805, 5.3266,  
3.4846

 110.3556,  
152.9295, 142.3114

 0.6230, 2.4401,  
1.3471

 139.7980,  
189.8909, 178.6976

 0.0000, 0.8464,  
0.0999

 174.0602,

 0.0000, 0.0000,

232.3739, 220.8106

0.0000

213.5076,  
280.7631, 269.0689

■ 22.6528, 37.4936,  
31.6343

■ 22.6528, 37.4936,  
31.6343

■ 22.6532, 37.4948,  
31.6332

■ 23.2616, 37.7685,  
33.4635

■ 24.1353, 38.1775,  
35.3764

■ 25.3674, 38.7697,  
37.3789

■ 27.0042, 39.5688,  
39.4739

■ 29.0848, 40.5950,  
41.6642

■ 31.6434, 41.8660,  
43.9520

■ 34.7110, 43.3978,  
46.3396

■ 38.3160, 45.2049,  
48.8290

■ 42.4844, 47.3007,  
51.4222

# Harmonies

## Analogous

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



25.5401, 37.4936, 17.5136



22.6528, 37.4936, 31.6343



22.8494, 37.4936, 55.0279

# Triad

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



22.6528, 37.4936, 31.6343



40.3014, 37.4936, 99.1630



47.2153, 37.4936, 16.3595

# Complementary

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



22.6528, 37.4936, 31.6343



20.9685, 10.7553, 3.4557

# 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.



52.4777, 37.4936, 29.3026



22.6528, 37.4936, 31.6343



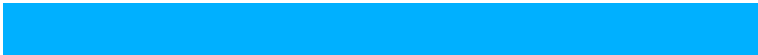
48.0948, 37.4936, 78.9338

# Square

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



22.6528, 37.4936, 31.6343



32.2638, 37.4936, 100.5418



52.8218, 37.4936, 51.6409



39.2365, 37.4936, 11.1884



# Rectangle

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



22.6528, 37.4936, 31.6343



24.6952, 37.4936, 73.4164



52.8218, 37.4936, 51.6409



49.4094, 37.4936, 19.6675

# Sweetspot

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



22.6538, 37.4951, 31.6352



61.8702, 77.5751, 82.7747



18.9326, 36.1407, 5.9786



13.0915, 16.8167, 17.8254



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



22.6538, 37.4951, 31.6352



40.4728, 67.1117, 56.1392



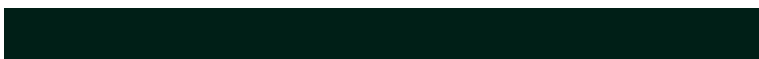
18.3860, 22.4196, 50.3737



9.7077, 10.7692, 11.7104



15.6371, 25.8451, 21.9496



0.6366, 1.0220, 0.9868



# Inverse Universe

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



20.9685, 10.7553, 3.4557



37.4753, 19.2301, 5.7801



21.5015, 12.5796, 1.2955



9.6218, 9.5730, 10.3973



14.4709, 7.4195, 2.5074



0.5934, 0.3013, 0.2384



# Previews

## White Background



This preview shows how the XYZ color 22.6528, 37.4936, 31.6343 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 22.6528, 37.4936, 31.6343 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

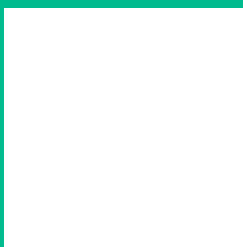
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.6528, 37.4936, 31.6343**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.6528, 37.4936, 31.6343.



This preview shows how white text looks on a background with the XYZ color 22.6528, 37.4936,



# 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

22.6528, 37.4936, 31.6343

### Protanopia

34.5820, 36.8048, 26.4005

### Deuteranopia

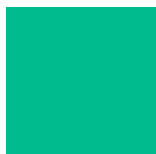
37.5797, 36.9061, 33.1599



## Tritanopia

27.9752, 37.5125, 57.3959

# Trichromacy



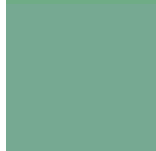
## Original Color

22.6528, 37.4936, 31.6343



## Protanomaly

25.6111, 34.6058, 27.8840



## Deuteranomaly

26.8475, 34.3028, 32.4002



## Tritanomaly

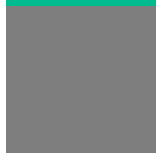
25.5693, 37.4136, 46.9482

# Monochromacy



## Original Color

22.6528, 37.4936, 31.6343



## Achromatopsia

19.8309, 20.8637, 22.7206



## Achromatomaly

18.0630, 24.5512, 25.6166

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.6528, 37.4936, 31.6343 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, 187, 142)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 142)  
}
```

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, 187, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 142) }
```

## Border

The CSS property to change the border of an element to XYZ 22.6528, 37.4936, 31.6343 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, 187, 142) }
```



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

```
.border{ border-color:rgb(0, 187, 142) }
```

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

Here you see how a box with a 4 pixel rgb(0, 187, 142) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 142);  
box-shadow:4px 4px 4px 4px rgb(0, 187,  
142) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.6528, 37.4936, 31.6343 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 142) }
```

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

```
.background{ background-color: rgb(0, 187,  
142) }
```

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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