

# Converting Colors

XYZ(13.6465, 29.0009, 37.1963)

Have a look what the booklet for  
XYZ(13.6465, 29.0009, 37.1963)  
contains.

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# Color

**XYZ(21.5015, 33.1286,  
37.6090)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AF9E
RGB	0, 175, 158
RGB Percent	0%, 69%, 62%
CMY	0.9999, 0.3137, 0.3804
CMYK	1.00, 0.00, 0.10, 0.31
HSL	174°, 100%, 34%
HSV	174°, 100%, 69%
XYZ	21.5015, 33.1286, 37.6090
YIQ	120.7370, -98.8430, -42.3870

# Conversions

## Conversions Part 2

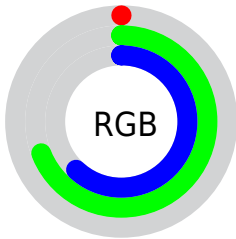
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 92, 175
Decimal	44958
CIELab	64.26, -41.31, -1.94
CIElCh	64, 41.356, 182.687
Yxy	33.1286, 0.2331, 0.3592
Android (android.graphics.Color)	4278235038 (0xFF00AF9E)
YUV	120.7370, 18.3707, -105.8863
Hunter-Lab	57.5574, -34.0440, 1.5491

# Details

The XYZ color **21.5015, 33.1286, 37.6090** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.7814, 9.1553, 1.3612**, and the grayscale version is **18.0570, 18.9974, 20.6882**.

A 20% lighter version of the original color is **45.4100, 64.4427, 72.9961**, and **9.6134, 14.9806, 16.2948** is the 20% darker color. If you saturate the color by 10%, you get **21.5020, 33.1297, 37.6089**, and if you desaturate by 10%, it is **21.8902, 33.3127, 38.3973**.

# Distribution



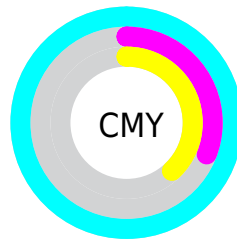
- Red (0%)
- Green (69%)
- Blue (62%)



- Red (0%)
- Yellow (36%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (31%)




- Cyan (100%)
- Magenta (31%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.5015, 33.1286, 37.6090 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 21.5015, 33.1286, 37.6090 by changing the saturation by 10% instead.





 21.5015, 33.1286,  
37.6090


 21.5015, 33.1286,  
37.6090


252.6134,  
316.2288, 351.1875


 13.6056, 22.2250,  
25.3799


 45.4057, 64.5763,  
72.7052


 7.9267, 14.0223,  
16.1387


 62.1447, 85.8891,  
96.4094


 4.0995, 8.1362,  
9.4670


 82.5622, 111.4404,  
124.7756

 1.7586, 4.1822,  
4.9460

 107.0235,  
141.6147, 158.2226

 0.4925, 1.7760,  
2.1574

 135.8938,  
176.7963, 197.1687

 0.0000, 0.4722,  
0.6497

 169.5387,

 0.0000, 0.0000,

217.3695, 242.0325

0.0000

208.3235,  
263.7189, 293.2326

■ 21.5015, 33.1286,  
37.6090

■ 21.5015, 33.1286,  
37.6090

■ 21.5020, 33.1297,  
37.6089

■ 21.8902, 33.3127,  
38.3973

■ 22.4929, 33.6062,  
39.2056

■ 23.3937, 34.0531,  
40.0384

■ 24.6315, 34.6734,  
40.8977

■ 26.2391, 35.4842,  
41.7850

■ 28.2457, 36.5004,  
42.7018

■ 30.6774, 37.7355,  
43.6493

■ 33.5580, 39.2019,  
44.6287

■ 36.9098, 40.9108,  
45.6411

# Harmonies

## Analogous

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



22.4826, 33.1286, 23.1745



21.5015, 33.1286, 37.6090



22.9082, 33.1286, 56.5066

# Triad

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



21.5015, 33.1286, 37.6090



37.9881, 33.1286, 70.7086



36.9584, 33.1286, 14.2919

# Complementary

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



21.5015, 33.1286, 37.6090



17.7814, 9.1553, 1.3612

# 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.



41.9795, 33.1286, 21.2736



21.5015, 33.1286, 37.6090



42.6241, 33.1286, 53.0378

# Square

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



21.5015, 33.1286, 37.6090



32.0201, 33.1286, 78.9776



44.1677, 33.1286, 34.5763



30.9613, 33.1286, 12.4514



# Rectangle

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



21.5015, 33.1286, 37.6090



25.1270, 33.1286, 68.3897



44.1677, 33.1286, 34.5763



38.8404, 33.1286, 15.9798

# Sweetspot

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



21.5025, 33.1299, 37.6098



54.6894, 67.4530, 78.0802



15.5712, 30.7851, 5.1220



11.7381, 14.7801, 17.1971



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



21.5025, 33.1299, 37.6098



38.4627, 59.3137, 67.1154



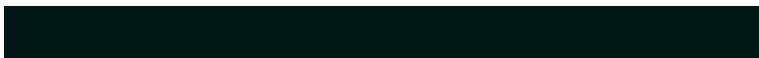
12.7910, 13.2006, 42.4327



8.2023, 9.0585, 10.0902



15.4103, 23.7294, 26.9981



0.4382, 0.6639, 0.8010



# Inverse Universe

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



17.7814, 9.1553, 1.3612



31.8081, 16.3809, 2.2470



19.8710, 13.4964, 1.5583



8.0357, 8.0275, 8.4987



12.7442, 6.5602, 1.0323

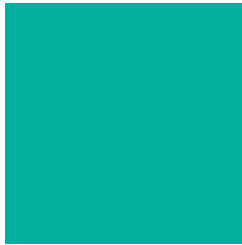


0.3644, 0.1865, 0.0808



# Previews

## White Background



This preview shows how the XYZ color 21.5015, 33.1286, 37.6090 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 21.5015, 33.1286, 37.6090 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

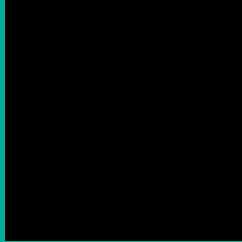
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

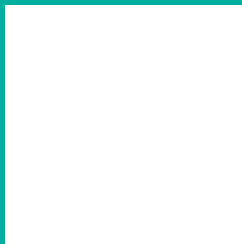
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 21.5015, 33.1286, 37.6090

## Background



This preview shows how black text looks on a background with the XYZ color 21.5015, 33.1286, 37.6090.



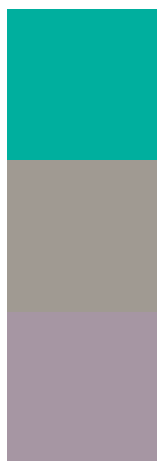
This preview shows how white text looks on a background with the XYZ color 21.5015, 33.1286,



# 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

21.5015, 33.1286, 37.6090

### Protanopia

31.2411, 32.6601, 31.8516

### Deuteranopia

33.2431, 32.5640, 39.1837



## Tritanopia

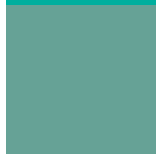
24.3586, 33.1641, 51.0164

# Trichromacy



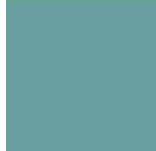
## Original Color

21.5015, 33.1286, 37.6090



## Protanomaly

23.9048, 30.8674, 33.5523



## Deuteranomaly

24.7750, 30.4337, 38.2867



## Tritanomaly

22.9693, 32.8471, 45.6870

# Monochromacy



## Original Color

21.5015, 33.1286, 37.6090



## Achromatopsia

18.1737, 19.1202, 20.8219



## Achromatomaly

16.8885, 22.3488, 25.9779

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.5015, 33.1286, 37.6090 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, 175, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 158)  
}
```

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, 175, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 21.5015, 33.1286, 37.6090 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, 175, 158) }
```



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

```
.border{ border-color:rgb(0, 175, 158) }
```

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

Here you see how a box with a 4 pixel rgb(0, 175, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 158);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.5015, 33.1286, 37.6090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 158) }
```

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

```
.background{ background-color: rgb(0, 175,  
158) }
```

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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