

# Converting Colors

XYZ(13.6478, 29.7673, 36.4659)

Have a look what the booklet for  
XYZ(13.6478, 29.7673, 36.4659)  
contains.

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# Color

**XYZ(21.7229, 33.8446,  
36.8402)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B19C
RGB	0, 177, 156
RGB Percent	0%, 69%, 61%
CMY	0.9999, 0.3059, 0.3882
CMYK	1.00, 0.00, 0.12, 0.31
HSL	173°, 100%, 35%
HSV	173°, 100%, 69%
XYZ	21.7229, 33.8446, 36.8402
YIQ	121.6830, -98.7510, -44.0550

# Conversions

## Conversions Part 2

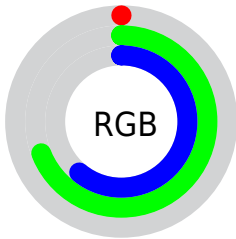
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 94, 177
Decimal	45468
CIELab	64.84, -42.74, 0.01
CIELCh	65, 42.743, 179.982
Yxy	33.8446, 0.2351, 0.3663
Android (android.graphics.Color)	4278235548 (0xFF00B19C)
YUV	121.6830, 16.9183, -106.7160
Hunter-Lab	58.1761, -35.1565, 3.1777

# Details

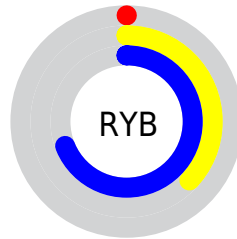
The XYZ color **21.7229, 33.8446, 36.8402** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **18.2680, 9.4022, 1.5628**, and the grayscale version is **18.3680, 19.3246, 21.0444**.

A 20% lighter version of the original color is **45.5956, 65.4178, 71.1965**, and **9.6328, 15.1858, 15.7881** is the 20% darker color. If you saturate the color by 10%, you get **21.7233, 33.8456, 36.8396**, and if you desaturate by 10%, it is **22.1474, 34.0435, 37.7974**.

# Distribution



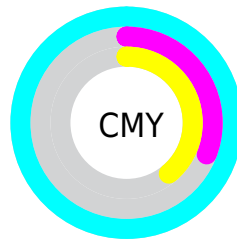
- Red (0%)
- Green (69%)
- Blue (61%)



- Red (0%)
- Yellow (37%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (12%)
- Black (31%)




- Cyan (100%)
- Magenta (31%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.7229, 33.8446, 36.8402 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 21.7229, 33.8446, 36.8402 by changing the saturation by 10% instead.





 21.7229, 33.8446,  
36.8402

 21.7229, 33.8446,  
36.8402


253.7554,  
319.4386, 347.7660


 13.7689, 22.7742,  
24.7890


 45.7699, 65.6919,  
71.5105


 8.0407, 14.4269,  
15.7023


 62.5935, 87.2377,  
94.9667


 4.1730, 8.4182,  
9.1617


 83.1044, 113.0441,  
123.0616

 1.8005, 4.3637,  
4.7485

 107.6680,  
143.4954, 156.2138

 0.5180, 1.8790,  
2.0443

 136.6495,  
178.9761, 194.8418

 0.0000, 0.5357,  
0.5823

 170.4143,

 0.0000, 0.0000,

219.8707, 239.3641

0.0000

209.3278,  
266.5633, 290.1993

■ 21.7229, 33.8446,  
36.8402

■ 21.7229, 33.8446,  
36.8402

■ 21.7233, 33.8456,  
36.8396

■ 22.1474, 34.0435,  
37.7974

■ 22.7933, 34.3554,  
38.7804

■ 23.7461, 34.8251,  
39.7940

■ 25.0459, 35.4734,  
40.8401

■ 26.7265, 36.3176,  
41.9204

■ 28.8179, 37.3732,  
43.0364

■ 31.3470, 38.6541,  
44.1894

■ 34.3383, 40.1729,  
45.3806

■ 37.8146, 41.9414,  
46.6112

# Harmonies

## Analogous

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



22.9682, 33.8446, 22.3590



21.7229, 33.8446, 36.8402



22.9652, 33.8446, 56.5226

# Triad

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



21.7229, 33.8446, 36.8402



38.4541, 33.8446, 74.7095



38.4615, 33.8446, 14.6002

# Complementary

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



21.7229, 33.8446, 36.8402



18.2680, 9.4022, 1.5628

# 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.



43.5505, 33.8446, 22.3724



21.7229, 33.8446, 36.8402



43.5458, 33.8446, 56.5475

# Square

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



21.7229, 33.8446, 36.8402



32.1645, 33.8446, 82.2149



45.5180, 33.8446, 36.8618



32.1721, 33.8446, 12.2818



# Rectangle

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



21.7229, 33.8446, 36.8402



25.1406, 33.8446, 69.3913



45.5180, 33.8446, 36.8618



40.3969, 33.8446, 16.5070

# Sweetspot

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



21.7239, 33.8459, 36.8410



55.8805, 69.0945, 79.0285



16.0906, 31.6350, 5.2589



11.6896, 14.7607, 16.9414



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.



21.7239, 33.8459, 36.8410



38.8500, 60.5926, 65.6901



13.7429, 14.7875, 43.7264



8.6984, 9.6138, 10.6712



15.7534, 24.5273, 26.7680



0.5078, 0.7766, 0.9064



# Inverse Universe

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



18.2680, 9.4022, 1.5628



32.6734, 16.8206, 2.5758



20.0178, 13.1186, 1.4778



8.5360, 8.5211, 9.0552



13.2473, 6.8165, 1.1965

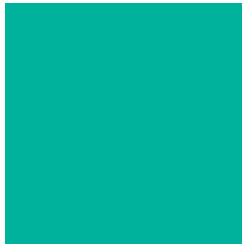


0.4299, 0.2197, 0.1066



# Previews

## White Background



This preview shows how the XYZ color 21.7229, 33.8446, 36.8402 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 21.7229, 33.8446, 36.8402 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

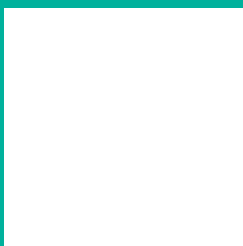
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 21.7229, 33.8446, 36.8402**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.7229, 33.8446, 36.8402.



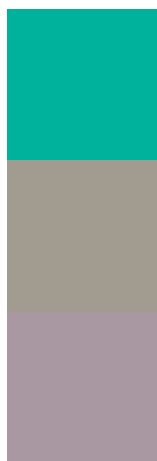
This preview shows how white text looks on a background with the XYZ color 21.7229, 33.8446,



# 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

21.7229, 33.8446, 36.8402

### Protanopia

31.8228, 33.4719, 31.1690

### Deuteranopia

34.1120, 33.5001, 38.8507



## Tritanopia

25.0855, 34.0793, 52.2695

# Trichromacy



## Original Color

21.7229, 33.8446, 36.8402

## Protanomaly

24.2143, 31.5726, 32.8349

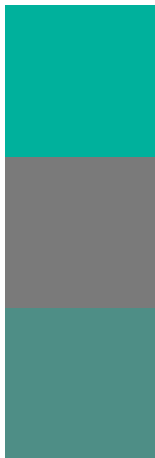
## Deuteranomaly

25.2744, 31.2159, 37.9509

## Tritanomaly

23.5079, 33.6827, 46.3367

# Monochromacy



## Original Color

21.7229, 33.8446, 36.8402

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

17.1180, 22.6869, 26.0311

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.7229, 33.8446, 36.8402 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, 177, 156)` looks like.

```
.text, #text, p{  
    color:rgb(0, 177, 156)  
}
```

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, 177, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 21.7229, 33.8446, 36.8402 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, 177, 156) }
```



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

```
.border{ border-color:rgb(0, 177, 156) }
```

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

Here you see how a box with a 4 pixel rgb(0, 177, 156) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 156);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.7229, 33.8446, 36.8402 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 156) }
```

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

```
.background{ background-color: rgb(0, 177,  
156) }
```

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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