

# Converting Colors

XYZ(21.6536, 31.9954, 40.6876)

Have a look what the booklet for  
XYZ(21.6536, 31.9954, 40.6876)  
contains.

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# Color

**XYZ(21.6429, 31.9912,  
40.6315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14ABA5
RGB	20, 171, 165
RGB Percent	8%, 67%, 65%
CMY	0.9215, 0.3294, 0.3529
CMYK	0.88, 0.00, 0.04, 0.33
HSL	178°, 79%, 37%
HSV	178°, 88%, 67%
XYZ	21.6429, 31.9912, 40.6315
YIQ	125.1670, -88.0700, -33.8780

# Conversions

## Conversions Part 2

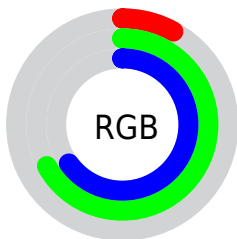
Format	Color
R <sub>Y</sub> B	20, 97, 171
Decimal	1354661
CIE Lab	63.34, -36.64, -7.20
CIE LCh	63, 37.340, 191.124
Yxy	31.9912, 0.2296, 0.3394
Android (android.graphics.Color)	4279544741 (0xFF14ABA5)
YUV	125.1670, 19.6377, -92.2315
Hunter-Lab	56.5608, -30.6786, -2.9996

# Details

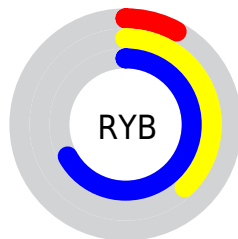
The XYZ color **21.6429, 31.9912, 40.6315** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.2322, 9.2337, 1.8523**, and the grayscale version is **19.5082, 20.5242, 22.3508**.

A 20% lighter version of the original color is **45.6429, 62.8148, 77.4290**, and **9.4591, 14.1491, 17.8553** is the 20% darker color. If you saturate the color by 10%, you get **21.3298, 31.8376, 40.2954**, and if you desaturate by 10%, it is **22.1842, 32.2638, 40.9814**.

# Distribution



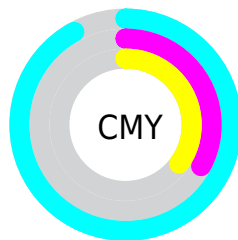
- Red (8%)
- Green (67%)
- Blue (65%)



- Red (8%)
- Yellow (38%)
- Blue (67%)



- Cyan (88%)
- Magenta (0%)
- Yellow (4%)
- Black (33%)



- Cyan (92%)
- Magenta (33%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.6429, 31.9912, 40.6315 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 21.6429, 31.9912, 40.6315 by changing the saturation by 10% instead.



■ 21.6429, 31.9912,  
40.6315

■ 21.6429, 31.9912,  
40.6315

253.3433,  
311.0792, 364.4090

■ 13.7099, 21.3548,  
27.7137

■ 45.6383, 62.7973,  
77.3718

■ 7.9995, 13.3836,  
17.8728

■ 62.4315, 83.7358,  
102.0313

■ 4.1464, 7.6932,  
10.6902

■ 82.9087, 108.8770,  
131.4419

■ 1.7853, 3.8993,  
5.7474

■ 107.4353,  
138.6055, 166.0221

■ 0.5088, 1.6174,  
2.6258

■ 136.3767,  
173.3055, 206.1903

■ 0.0000, 0.3693,  
0.9057

■ 170.0983,

■ 0.0000, 0.0000,

213.3616, 252.3652

0.0000

208.9653,  
259.1580, 304.9653

■ 21.6429, 31.9912,  
40.6315

■ 21.6429, 31.9912,  
40.6315

■ 21.3298, 31.8376,  
40.2954

■ 22.1842, 32.2638,  
40.9814

■ 21.2829, 31.8146,  
40.2385

■ 23.0124, 32.6835,  
41.3457

■ 24.1639, 33.2699,  
41.7269

■ 25.6692, 34.0386,  
42.1264

■ 27.5551, 35.0035,  
42.5454

■ 29.8459, 36.1771,  
42.9851

■ 32.5638, 37.5709,  
43.4465

■ 35.7296, 39.1954,  
43.9306

■ 39.3625, 41.0608,  
44.4383

# Harmonies

## Analogous

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



21.9220, 31.9912, 26.3950



21.6429, 31.9912, 40.6315



23.5036, 31.9912, 57.1646

# Triad

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



21.6429, 31.9912, 40.6315



37.4394, 31.9912, 61.0436



33.7444, 31.9912, 14.2125

# Complementary

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



21.6429, 31.9912, 40.6315



17.2322, 9.2337, 1.8523

# 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.



38.5441, 31.9912, 19.2382



21.6429, 31.9912, 40.6315



40.8390, 31.9912, 44.9012

# Square

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



21.6429, 31.9912, 40.6315



32.3691, 31.9912, 70.9906



41.2648, 31.9912, 29.6142



28.5252, 31.9912, 13.6704



# Rectangle

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



21.6429, 31.9912, 40.6315



25.8457, 31.9912, 66.2597



41.2648, 31.9912, 29.6142



35.4750, 31.9912, 15.3487

# Sweetspot

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



21.6439, 31.9924, 40.6323



54.2859, 65.2173, 77.1301



15.1569, 29.4182, 5.5419



11.7699, 14.3714, 17.1399



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

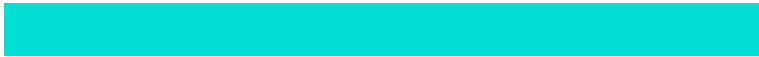


# Same Dimension

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



21.6439, 31.9924, 40.6323



38.0957, 56.9686, 71.9601



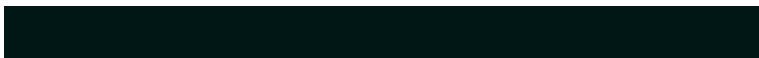
12.4957, 12.8013, 40.3418



8.2224, 9.0665, 10.1960



16.0483, 23.9846, 30.3579



0.4506, 0.6689, 0.8663



# Inverse Universe

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



17.2322, 9.2337, 1.8523



30.1266, 15.5252, 1.6620



20.4080, 15.6815, 2.6137



8.0177, 8.0203, 8.4038



12.6934, 6.5399, 0.7650

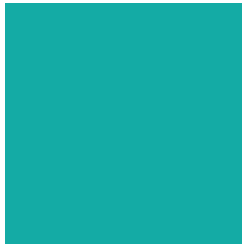


0.3572, 0.1836, 0.0428



# Previews

## White Background



This preview shows how the XYZ color 21.6429, 31.9912, 40.6315 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 21.6429, 31.9912, 40.6315 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

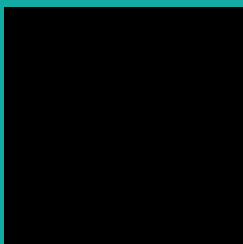
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

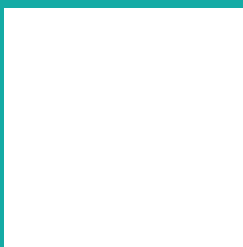
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 21.6429, 31.9912, 40.6315**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.6429, 31.9912, 40.6315.



This preview shows how white text looks on a background with the XYZ color 21.6429, 31.9912,



# 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

21.6429, 31.9912, 40.6315

### Protanopia

30.1428, 31.3031, 34.5904

### Deuteranopia

32.1437, 31.4530, 42.4071



## Tritanopia

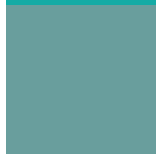
23.3212, 31.8338, 49.1713

# Trichromacy



## Original Color

21.6429, 31.9912, 40.6315



## Protanomaly

24.1384, 29.8913, 36.3957



## Deuteranomaly

25.1407, 29.7922, 41.4712



## Tritanomaly

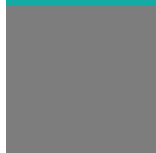
22.6516, 31.8339, 46.0250

# Monochromacy



## Original Color

21.6429, 31.9912, 40.6315



## Achromatopsia

19.4927, 20.5079, 22.3331



## Achromatomaly

18.3371, 23.2657, 28.3352

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.6429, 31.9912, 40.6315 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(20, 171, 165)` looks like.

```
.text, #text, p{  
    color:rgb(20, 171, 165)  
}
```

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(20, 171, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 171, 165) }
```

## Border

The CSS property to change the border of an element to XYZ 21.6429, 31.9912, 40.6315 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(20, 171, 165) }
```



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

```
.border{ border-color:rgb(20, 171, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 171, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 171, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 171, 165);  
box-shadow:4px 4px 4px 4px rgb(20, 171,  
165) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.6429, 31.9912, 40.6315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 171, 165) }
```

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

```
.background{ background-color: rgb(20, 171,  
165) }
```

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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