

Converting Colors

XYZ(21.8631, 31.5956, 44.6847)

Have a look what the booklet for
XYZ(21.8631, 31.5956, 44.6847)
contains.

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Color

**XYZ(21.9176, 31.7666,
44.5116)**

Conversions

Conversions Part 1

Format	Color
Hex	00AAAD
RGB	0, 170, 173
RGB Percent	0%, 67%, 68%
CMY	0.9999, 0.3333, 0.3216
CMYK	1.00, 0.02, 0.00, 0.32
HSL	181°, 100%, 34%
HSV	181°, 100%, 68%
XYZ	21.9176, 31.7666, 44.5116
YIQ	119.5120, -102.2830, -35.1070

Conversions

Conversions Part 2

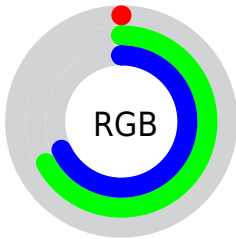
Format	Color
RYB	0, 86, 173
Decimal	43693
CIELab	63.15, -34.55, -11.97
CIELCh	63, 36.565, 199.108
Yxy	31.7666, 0.2232, 0.3235
Android (android.graphics.Color)	4278233773 (0xFF00AAAD)
YUV	119.5120, 26.3696, -104.8120
Hunter-Lab	56.3619, -29.2195, -7.3708

Details

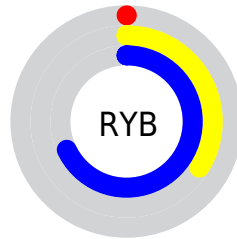
The XYZ color **21.9176, 31.7666, 44.5116** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.2670, 8.9503, 0.8185**, and the grayscale version is **17.6428, 18.5616, 20.2136**.

A 20% lighter version of the original color is **46.1297, 62.5355, 83.0381**, and **9.8125, 14.1031, 20.2941** is the 20% darker color. If you saturate the color by 10%, you get **21.9180, 31.7673, 44.5123**, and if you desaturate by 10%, it is **22.2116, 32.0024, 44.5422**.

Distribution



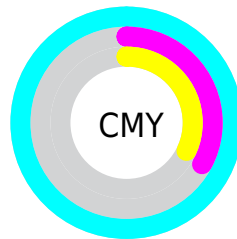
- Red (0%)
- Green (67%)
- Blue (68%)



- Red (0%)
- Yellow (34%)
- Blue (68%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (32%)



- Cyan (100%)
- Magenta (33%)
- Yellow (32%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.9176, 31.7666, 44.5116 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 21.9176, 31.7666, 44.5116 by changing the saturation by 10% instead.

■ 21.9176, 31.7666,
44.5116

■ 21.9176, 31.7666,
44.5116

■ 254.7561,
310.0547, 380.8942

■ 13.9126, 21.1833,
30.7328

■ 46.0896, 62.4450,
83.2977

■ 8.1412, 13.2580,
20.1387

■ 62.9874, 83.3089,
109.1420

■ 4.2380, 7.6065,
12.3108

■ 83.5802, 108.3684,
139.8453

■ 1.8376, 3.8442,
6.8306

■ 108.2333,
138.0080, 175.8260

■ 0.5402, 1.5868,
3.2796

■ 137.3121,
172.6120, 217.5027

■ 0.0000, 0.3487,
1.2391

■ 171.1819,

■ 0.0000, 0.0000,

212.5649, 265.2939

0.0111

210.2081,
258.2510, 319.6183

■ 0.0000, 0.0000,
0.0000

■ 21.9176, 31.7666,
44.5116

■ 21.9176, 31.7666,
44.5116

■ 21.9180, 31.7673,
44.5123

■ 22.2116, 32.0024,
44.5422

■ 22.7117, 32.3440,
44.5818

■ 23.5003, 32.8345,
44.6349

■ 24.6151, 33.4933,
44.7033

■ 26.0882, 34.3370,
44.7885

■ 27.9477, 35.3802,
44.8919

■ 30.2192, 36.6359,
45.0145

■ 32.9257, 38.1161,
45.1576

■ 36.0888, 39.8318,
45.3220

Harmonies

Analogous

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



21.6281, 31.7666, 29.5963



21.9176, 31.7666, 44.5116



24.2734, 31.7666, 60.1510

Triad

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



21.9176, 31.7666, 44.5116



38.1427, 31.7666, 56.1686



32.0650, 31.7666, 13.8396

Complementary

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



21.9176, 31.7666, 44.5116



17.2670, 8.9503, 0.8185

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.



37.0048, 31.7666, 17.5403



21.9176, 31.7666, 44.5116



40.7650, 31.7666, 40.1125

Square

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



21.9176, 31.7666, 44.5116



33.4840, 31.7666, 68.0727



40.3268, 31.7666, 26.2619



27.1254, 31.7666, 14.4071

Rectangle

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



21.9176, 31.7666, 44.5116



26.8619, 31.7666, 67.6089



40.3268, 31.7666, 26.2619



33.7892, 31.7666, 14.5728

Sweetspot

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



21.9186, 31.7678, 44.5124



53.8790, 65.4796, 80.6049



14.9602, 29.8942, 5.0655



11.3331, 14.0229, 17.4971



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.



21.9186, 31.7678, 44.5124



39.2360, 56.8578, 79.7125



10.6855, 9.3016, 40.7680



8.2243, 9.0479, 10.2656



16.1064, 23.3467, 32.7020



0.4517, 0.6568, 0.9110

Inverse Universe

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



24.4902, 11.7875, 39.0159



43.8505, 21.1056, 69.8270



20.8399, 16.0962, 2.0095



8.3310, 8.1456, 10.0538



17.9934, 8.6599, 28.6744



0.5024, 0.2416, 0.8074

Previews

White Background



This preview shows how the XYZ color 21.9176, 31.7666, 44.5116 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 21.9176, 31.7666, 44.5116 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

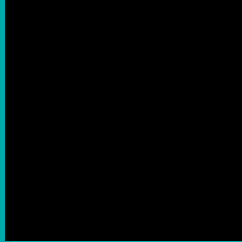
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

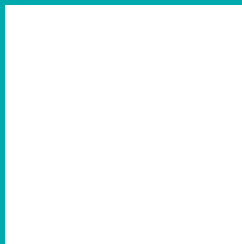
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.9176, 31.7666, 44.5116

Background



This preview shows how black text looks on a background with the XYZ color 21.9176, 31.7666, 44.5116.

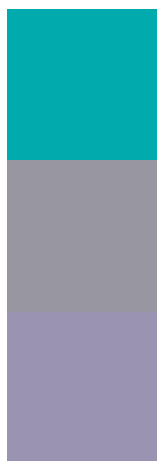


This preview shows how white text looks on a background with the XYZ color 21.9176, 31.7666,

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

21.9176, 31.7666, 44.5116

Protanopia

30.4485, 31.3818, 38.1707

Deuteranopia

31.9522, 31.2642, 46.4700



Tritanopia

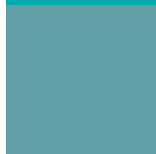
23.1104, 32.0002, 49.2146

Trichromacy



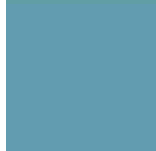
Original Color

21.9176, 31.7666, 44.5116



Protanomaly

23.9482, 29.7117, 40.0700



Deuteranomaly

24.7619, 29.5082, 45.4649



Tritanomaly

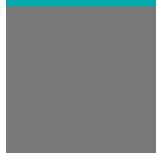
22.5741, 31.7592, 47.5882

Monochromacy



Original Color

21.9176, 31.7666, 44.5116



Achromatopsia

17.8524, 18.7821, 20.4537



Achromatomaly

16.7292, 21.5775, 27.7093

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.9176, 31.7666, 44.5116 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, 170, 173)` looks like.

```
.text, #text, p{  
    color:rgb(0, 170, 173)  
}
```

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, 170, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 173) }
```

Border

The CSS property to change the border of an element to XYZ 21.9176, 31.7666, 44.5116 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, 170, 173) }
```


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

```
.border{ border-color:rgb(0, 170, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 170, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 173);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
173) }
```

Background

The CSS property to change the background color of an element to XYZ 21.9176, 31.7666, 44.5116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 170, 173) }
```

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

```
.background{ background-color: rgb(0, 170,  
173) }
```

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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