

Converting Colors

XYZ(21.9616, 31.9204, 43.5553)

Have a look what the booklet for
XYZ(21.9616, 31.9204, 43.5553)
contains.

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Color

**XYZ(21.8770, 31.7679,
43.5069)**

Conversions

Conversions Part 1

Format	Color
Hex	0CAAAB
RGB	12, 170, 171
RGB Percent	5%, 67%, 67%
CMY	0.9528, 0.3333, 0.3294
CMYK	0.93, 0.01, 0.00, 0.33
HSL	180°, 87%, 36%
HSV	180°, 93%, 67%
XYZ	21.8770, 31.7679, 43.5069
YIQ	122.8720, -94.4890, -33.1850

Conversions

Conversions Part 2

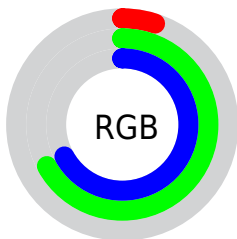
Format	Color
RYB	12, 91, 171
Decimal	830123
CIELab	63.15, -34.74, -10.84
CIElCh	63, 36.397, 197.331
Yxy	31.7679, 0.2252, 0.3270
Android (android.graphics.Color)	4279020203 (0xFF0CAAAB)
YUV	122.8720, 23.7271, -97.2347
Hunter-Lab	56.3630, -29.3515, -6.3121

Details

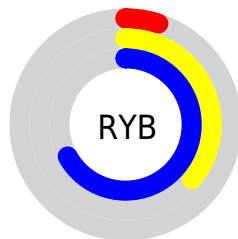
The XYZ color **21.8770, 31.7679, 43.5069** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.0056, 8.9731, 1.1843**, and the grayscale version is **18.7339, 19.7095, 21.4636**.

A 20% lighter version of the original color is **46.0694, 62.5363, 81.5941**, and **9.6911, 14.0545, 19.6548** is the 20% darker color. If you saturate the color by 10%, you get **21.7119, 31.6624, 43.4958**, and if you desaturate by 10%, it is **22.2564, 31.9941, 43.5311**.

Distribution



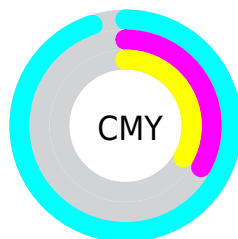
- Red (5%)
- Green (67%)
- Blue (67%)



- Red (5%)
- Yellow (36%)
- Blue (67%)



- Cyan (93%)
- Magenta (1%)
- Yellow (0%)
- Black (33%)



- Cyan (95%)
- Magenta (33%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.8770, 31.7679, 43.5069 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 21.8770, 31.7679, 43.5069 by changing the saturation by 10% instead.

■ 21.8770, 31.7679,
43.5069

■ 21.8770, 31.7679,
43.5069

■ 254.5477,
310.0606, 376.6745

■ 13.8826, 21.1843,
29.9487

■ 46.0230, 62.4471,
81.7698

■ 8.1202, 13.2588,
19.5479

■ 62.9053, 83.3114,
107.3115

■ 4.2244, 7.6070,
11.8861

■ 83.4811, 108.3714,
137.6849

■ 1.8299, 3.8445,
6.5445

■ 108.1155,
138.0115, 173.3084

■ 0.5356, 1.5870,
3.1048

■ 137.1740,
172.6161, 214.6006

■ 0.0000, 0.3488,
1.1484

■ 171.0220,

■ 0.0000, 0.0000,

212.5695, 261.9799

0.0000

210.0248,
258.2562, 315.8651

■ 21.8770, 31.7679,
43.5069

■ 21.8770, 31.7679,
43.5069

■ 21.7119, 31.6624,
43.4958

■ 22.2564, 31.9941,
43.5311

■ 22.9032, 32.3574,
43.5672

■ 23.8572, 32.8792,
43.6176

■ 25.1509, 33.5761,
43.6840

■ 26.8127, 34.4628,
43.7675

■ 28.8681, 35.5524,
43.8695

■ 31.3401, 36.8568,
43.9910

■ 34.2501, 38.3871,
44.1330

■ 37.6180, 40.1534,
44.2964

Harmonies

Analogous

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



21.7133, 31.7679, 28.8682



21.8770, 31.7679, 43.5069



24.1069, 31.7679, 59.1915

Triad

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



21.8770, 31.7679, 43.5069



37.8720, 31.7679, 56.9428



32.3638, 31.7679, 14.0043

Complementary

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



21.8770, 31.7679, 43.5069



17.0056, 8.9731, 1.1843

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.



37.2291, 31.7679, 17.9698



21.8770, 31.7679, 43.5069



40.6384, 31.7679, 41.0216

Square

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



21.8770, 31.7679, 43.5069



33.1657, 31.7679, 68.3070



40.3908, 31.7679, 26.9829



27.4062, 31.7679, 14.3257

Rectangle

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



21.8770, 31.7679, 43.5069



26.6210, 31.7679, 66.9288



40.3908, 31.7679, 26.9829



34.0741, 31.7679, 14.8211

Sweetspot

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



21.8780, 31.7691, 43.5077



53.5864, 64.6679, 78.6597



14.7816, 29.2312, 5.2117



11.5536, 14.2118, 17.5219



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.



21.8780, 31.7691, 43.5077



38.8779, 56.6922, 77.8955



11.2878, 10.5887, 39.9776



8.2320, 9.0633, 10.2682



16.3688, 23.8715, 32.7895



0.4567, 0.6668, 0.9126

Inverse Universe

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



24.1826, 11.8240, 39.0392



43.0571, 20.6974, 69.7531



20.6464, 16.2548, 2.3979



8.3349, 8.1472, 10.0744



18.1259, 8.7129, 29.3720



0.5049, 0.2427, 0.8207

Previews

White Background



This preview shows how the XYZ color 21.8770, 31.7679, 43.5069 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 21.8770, 31.7679, 43.5069 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

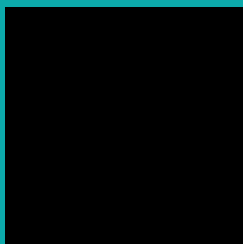
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

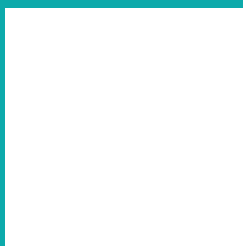
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.8770, 31.7679, 43.5069

Background



This preview shows how black text looks on a background with the XYZ color 21.8770, 31.7679, 43.5069.

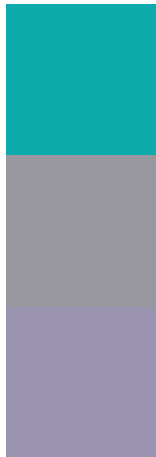


This preview shows how white text looks on a background with the XYZ color 21.8770, 31.7679,

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

21.8770, 31.7679, 43.5069

Protanopia

30.2735, 31.3118, 37.2491

Deuteranopia

31.9439, 31.2830, 45.4289



Tritanopia

23.0418, 31.6897, 49.1583

Trichromacy



Original Color

21.8770, 31.7679, 43.5069

Protanomaly

24.2045, 29.8648, 39.1391

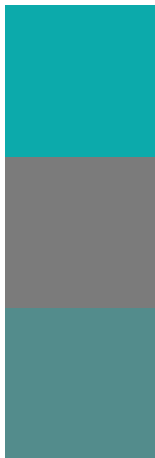
Deuteranomaly

25.1220, 29.7165, 44.4562

Tritanomaly

22.6248, 31.7970, 47.0645

Monochromacy



Original Color

21.8770, 31.7679, 43.5069

Achromatopsia

18.8265, 19.8069, 21.5697

Achromatomaly

17.6790, 22.4886, 28.2199

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.8770, 31.7679, 43.5069 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(12, 170, 171)` looks like.

```
.text, #text, p{  
    color:rgb(12, 170, 171)  
}
```

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(12, 170, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 170, 171) }
```

Border

The CSS property to change the border of an element to XYZ 21.8770, 31.7679, 43.5069 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(12, 170, 171) }
```


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

```
.border{ border-color:rgb(12, 170, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 170, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 170, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 170, 171);  
box-shadow:4px 4px 4px 4px rgb(12, 170,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 21.8770, 31.7679, 43.5069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 170, 171) }
```

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

```
.background{ background-color: rgb(12, 170,  
171) }
```

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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