

Converting Colors

XYZ(20.9721, 31.6442, 38.7442)

Have a look what the booklet for
XYZ(20.9721, 31.6442, 38.7442)
contains.

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Color

**XYZ(20.9959, 31.6990,
38.7301)**

Conversions

Conversions Part 1

Format	Color
Hex	00ABA1
RGB	0, 171, 161
RGB Percent	0%, 67%, 63%
CMY	0.9999, 0.3294, 0.3686
CMYK	1.00, 0.00, 0.06, 0.33
HSL	176°, 100%, 34%
HSV	176°, 100%, 67%
XYZ	20.9959, 31.6990, 38.7301
YIQ	118.7310, -98.7060, -39.3620

Conversions

Conversions Part 2

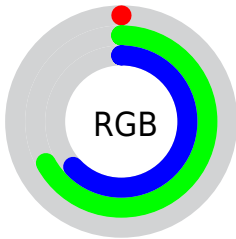
Format	Color
RYB	0, 88, 171
Decimal	43937
CIELab	63.09, -38.67, -5.34
CIELCh	63, 39.035, 187.862
Yxy	31.6990, 0.2297, 0.3467
Android (android.graphics.Color)	4278234017 (0xFF00ABA1)
YUV	118.7310, 20.8386, -104.1271
Hunter-Lab	56.3019, -31.9627, -1.3743

Details

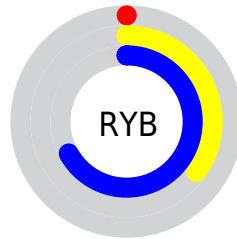
The XYZ color **20.9959, 31.6990, 38.7301** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **16.8504, 8.6807, 1.0754**, and the grayscale version is **17.4110, 18.3178, 19.9480**.

A 20% lighter version of the original color is **44.5831, 62.3289, 74.6467**, and **9.2929, 14.0827, 16.9803** is the 20% darker color. If you saturate the color by 10%, you get **20.9964, 31.7000, 38.7301**, and if you desaturate by 10%, it is **21.3185, 31.8558, 39.2083**.

Distribution



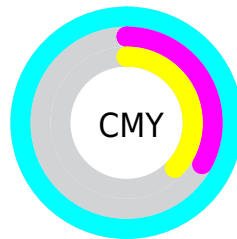
- Red (0%)
- Green (67%)
- Blue (63%)



- Red (0%)
- Yellow (35%)
- Blue (67%)



- Cyan (100%)
- Magenta (0%)
- Yellow (6%)
- Black (33%)





- Cyan (100%)
- Magenta (33%)
- Yellow (37%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.9959, 31.6990, 38.7301 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 20.9959, 31.6990, 38.7301 by changing the saturation by 10% instead.


 20.9959, 31.6990,
38.7301


 20.9959, 31.6990,
38.7301


249.9888,
309.7458, 356.1333


 13.2334, 21.1317,
26.2436


 44.5720, 62.3389,
74.4416


 7.6676, 13.2203,
16.7786


 61.1164, 83.1803,
98.5037


 3.9330, 7.5804,
9.9165


 81.3189, 108.2152,
127.2614

 1.6643, 3.8277,
5.2387

 105.5447,
137.8280, 161.1333

 0.4338, 1.5776,
2.3268

 134.1592,
172.4030, 200.5379

 0.0000, 0.3425,
0.7462

 167.5278,

 0.0000, 0.0000,

212.3248, 245.8937

0.0000

206.0159,
257.9776, 297.6193

■ 20.9959, 31.6990,
38.7301

■ 20.9959, 31.6990,
38.7301

■ 20.9964, 31.7000,
38.7301

■ 21.3185, 31.8558,
39.2083

■ 21.8416, 32.1151,
39.6988

■ 22.6462, 32.5195,
40.2062

■ 23.7689, 33.0878,
40.7323

■ 25.2409, 33.8361,
41.2783

■ 27.0896, 34.7785,
41.8458

■ 29.3396, 35.9277,
42.4357

■ 32.0135, 37.2953,
43.0492

■ 35.1322, 38.8922,
43.6873

Harmonies

Analogous

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



21.5235, 31.6990, 24.5072



20.9959, 31.6990, 38.7301



22.6747, 31.6990, 56.0896

Triad

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



20.9959, 31.6990, 38.7301



36.9378, 31.6990, 63.6011



34.1995, 31.6990, 13.6966

Complementary

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



20.9959, 31.6990, 38.7301



16.8504, 8.6807, 1.0754

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.



39.0603, 31.6990, 19.3321



20.9959, 31.6990, 38.7301



40.7678, 31.6990, 46.9320

Square

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



20.9959, 31.6990, 38.7301



31.5669, 31.6990, 72.9877



41.5876, 31.6990, 30.6171



28.7353, 31.6990, 12.6927

Rectangle

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



20.9959, 31.6990, 38.7301



24.9522, 31.6990, 66.1873



41.5876, 31.6990, 30.6171



35.9764, 31.6990, 15.0090

Sweetspot

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



20.9968, 31.7002, 38.7309



52.3050, 64.2204, 75.9391



14.7072, 29.2009, 4.8619



11.2801, 14.1251, 16.8373



82.5889, 86.8899, 94.6231



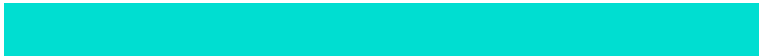
15.4596, 16.2647, 17.7123

Same Dimension

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



20.9968, 31.7002, 38.7309



37.5743, 56.7601, 69.2145



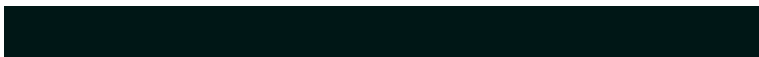
11.6179, 11.4738, 40.1317



8.2158, 9.0639, 10.1614



15.8345, 23.8991, 29.2318



0.4465, 0.6672, 0.8446

Inverse Universe

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



16.8504, 8.6807, 1.0754



30.1508, 15.5349, 1.7894



19.2518, 13.5713, 1.6056



8.0235, 8.0227, 8.4348



12.7089, 6.5461, 0.8464



0.3596, 0.1845, 0.0552

Previews

White Background



This preview shows how the XYZ color 20.9959, 31.6990, 38.7301 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 20.9959, 31.6990, 38.7301 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

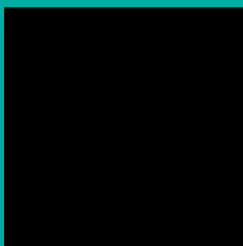
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

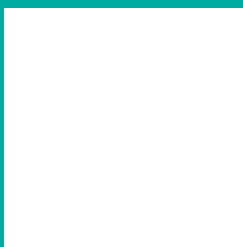
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.9959, 31.6990, 38.7301

Background



This preview shows how black text looks on a background with the XYZ color 20.9959, 31.6990, 38.7301.

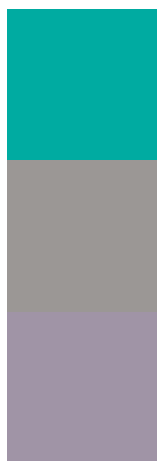


This preview shows how white text looks on a background with the XYZ color 20.9959, 31.6990,

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

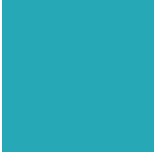
20.9959, 31.6990, 38.7301

Protanopia

30.0090, 31.2717, 32.8882

Deuteranopia

31.9700, 31.4066, 40.4535



Tritanopia

23.2828, 31.8140, 49.1696

Trichromacy



Original Color

20.9959, 31.6990, 38.7301

Protanomaly

23.1222, 29.4063, 34.5943

Deuteranomaly

24.0688, 29.2821, 39.5054

Tritanomaly

22.2289, 31.6386, 44.9797

Monochromacy



Original Color

20.9959, 31.6990, 38.7301

Achromatopsia

17.5343, 18.4475, 20.0893

Achromatomaly

16.3720, 21.4347, 25.8287

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9959, 31.6990, 38.7301 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, 171, 161)` looks like.

```
.text, #text, p{  
    color:rgb(0, 171, 161)  
}
```

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, 171, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 171, 161) }
```

Border

The CSS property to change the border of an element to XYZ 20.9959, 31.6990, 38.7301 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, 171, 161) }
```


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

```
.border{ border-color:rgb(0, 171, 161) }
```

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

Here you see how a box with a 4 pixel rgb(0, 171, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 171, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 171, 161);  
box-shadow:4px 4px 4px 4px rgb(0, 171,  
161) }
```

Background

The CSS property to change the background color of an element to XYZ 20.9959, 31.6990, 38.7301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 171, 161) }
```

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

```
.background{ background-color: rgb(0, 171,  
161) }
```

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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