

Converting Colors

XYZ(20.4200, 31.7720, 34.7621)

Have a look what the booklet for
XYZ(20.4200, 31.7720, 34.7621)
contains.

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Color

**XYZ(20.4200, 31.7720,
34.7621)**

Conversions

Conversions Part 1

Format	Color
Hex	00AC98
RGB	0, 172, 152
RGB Percent	0%, 67%, 60%
CMY	0.9999, 0.3255, 0.4039
CMYK	1.00, 0.00, 0.12, 0.33
HSL	173°, 100%, 34%
HSV	173°, 100%, 67%
XYZ	20.4200, 31.7720, 34.7621
YIQ	118.2920, -96.0920, -42.6840

Conversions

Conversions Part 2

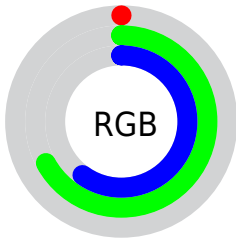
Format	Color
RYB	0, 91, 172
Decimal	44184
CIELab	63.15, -41.72, -0.22
CIELCh	63, 41.719, 180.303
Yxy	31.7720, 0.2348, 0.3654
Android (android.graphics.Color)	4278234264 (0xFF00AC98)
YUV	118.2920, 16.6180, -103.7421
Hunter-Lab	56.3667, -33.9763, 2.8917

Details

The XYZ color **20.4200, 31.7720, 34.7621** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.1406, 8.8221, 1.4625**, and the grayscale version is **17.2852, 18.1853, 19.8038**.

A 20% lighter version of the original color is **43.5001, 62.3227, 68.1293**, and **8.9458, 14.1332, 14.5684** is the 20% darker color. If you saturate the color by 10%, you get **20.4204, 31.7730, 34.7616**, and if you desaturate by 10%, it is **20.8211, 31.9604, 35.6442**.

Distribution



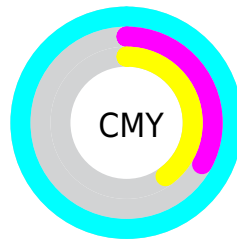
- Red (0%)
- Green (67%)
- Blue (60%)



- Red (0%)
- Yellow (36%)
- Blue (67%)



- Cyan (100%)
- Magenta (0%)
- Yellow (12%)
- Black (33%)





- Cyan (100%)
- Magenta (33%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4200, 31.7720, 34.7621 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 20.4200, 31.7720, 34.7621 by changing the saturation by 10% instead.


 20.4200, 31.7720,
34.7621


 20.4200, 31.7720,
34.7621


246.9703,
310.0793, 338.3893


 12.8107, 21.1874,
23.1976


 43.6188, 62.4535,
68.2644

 7.3745, 13.2611,
14.5328


 59.9391, 83.3192,
91.0394


 3.7458, 7.6086,
8.3492


 79.8938, 108.3807,
118.3882

 1.5593, 3.8455,
4.2282

 103.8482,
138.0224, 150.7294

 0.3657, 1.5875,
1.7514

 132.1677,
172.6287, 188.4816

 0.0000, 0.3492,
0.3956

 165.2176,

 0.0000, 0.0000,

212.5841, 232.0633

0.0000

203.3634,
258.2728, 281.8930

■ 20.4200, 31.7720,
34.7621

■ 20.4200, 31.7720,
34.7621

■ 20.4204, 31.7730,
34.7616

■ 20.8211, 31.9604,
35.6442

■ 21.4277, 32.2537,
36.5497

■ 22.3217, 32.6949,
37.4831

■ 23.5403, 33.3030,
38.4465

■ 25.1150, 34.0944,
39.4412

■ 27.0737, 35.0834,
40.4686

■ 29.4413, 36.2830,
41.5300

■ 32.2409, 37.7048,
42.6265

■ 35.4936, 39.3599,
43.7592

Harmonies

Analogous

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



21.5615, 31.7720, 21.1368



20.4200, 31.7720, 34.7621



21.6082, 31.7720, 53.1983

Triad

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



20.4200, 31.7720, 34.7621



36.1398, 31.7720, 69.8512



36.0257, 31.7720, 13.7057

Complementary

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



20.4200, 31.7720, 34.7621



17.1406, 8.8221, 1.4625

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.



40.8079, 31.7720, 20.9286



20.4200, 31.7720, 34.7621



40.8794, 31.7720, 52.8126

Square

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



20.4200, 31.7720, 34.7621



30.2569, 31.7720, 77.0064



42.6857, 31.7720, 34.4271



30.1399, 31.7720, 11.5787

Rectangle

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



20.4200, 31.7720, 34.7621



23.6608, 31.7720, 65.1971



42.6857, 31.7720, 34.4271



37.8411, 31.7720, 15.4749

Sweetspot

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



20.4209, 31.7732, 34.7629



53.1521, 65.6902, 75.2312



15.0434, 29.6557, 4.9320



11.1548, 14.0750, 16.1777



82.5889, 86.8899, 94.6231



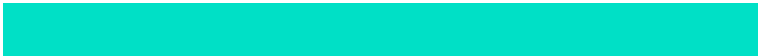
15.4596, 16.2647, 17.7123

Same Dimension

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



20.4209, 31.7732, 34.7629



36.9912, 57.6177, 62.7806



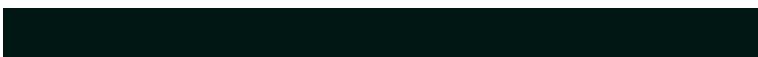
12.6090, 13.3029, 40.9342



8.1956, 9.0558, 10.0551



15.2086, 23.6487, 25.9362



0.4342, 0.6623, 0.7800

Inverse Universe

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



17.1406, 8.8221, 1.4625



31.0521, 15.9863, 2.4321



18.9592, 12.6615, 1.4454



8.0417, 8.0299, 8.5305



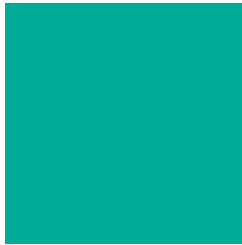
12.7658, 6.5689, 1.1460



0.3668, 0.1874, 0.0935

Previews

White Background



This preview shows how the XYZ color 20.4200, 31.7720, 34.7621 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 20.4200, 31.7720, 34.7621 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

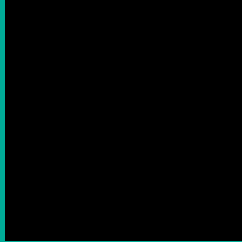
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 20.4200, 31.7720, 34.7621

Background



This preview shows how black text looks on a background with the XYZ color 20.4200, 31.7720, 34.7621.

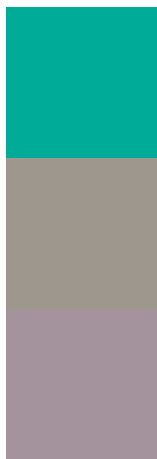


This preview shows how white text looks on a background with the XYZ color 20.4200, 31.7720,

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

20.4200, 31.7720, 34.7621

Protanopia

29.7790, 31.2244, 29.6567

Deuteranopia

31.8294, 31.1943, 36.2418



Tritanopia

23.4253, 31.8993, 48.6386

Trichromacy



Original Color

20.4200, 31.7720, 34.7621

Protanomaly

22.7645, 29.5499, 31.2920

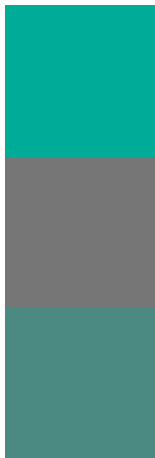
Deuteranomaly

23.5138, 29.0865, 35.3853

Tritanomaly

21.9504, 31.5394, 42.9610

Monochromacy



Original Color

20.4200, 31.7720, 34.7621

Achromatopsia

17.2197, 18.1164, 19.7288

Achromatomaly

16.0194, 21.2845, 24.3831

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4200, 31.7720, 34.7621 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, 172, 152)` looks like.

```
.text, #text, p{  
    color:rgb(0, 172, 152)  
}
```

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, 172, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 172, 152) }
```

Border

The CSS property to change the border of an element to XYZ 20.4200, 31.7720, 34.7621 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, 172, 152) }
```


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

```
.border{ border-color:rgb(0, 172, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 172, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 172, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 172, 152);  
box-shadow:4px 4px 4px 4px rgb(0, 172,  
152) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4200, 31.7720, 34.7621 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 172, 152) }
```

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

```
.background{ background-color: rgb(0, 172,  
152) }
```

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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