

Converting Colors

XYZ(20.9916, 32.0392, 31.3183)

Have a look what the booklet for
XYZ(20.9916, 32.0392, 31.3183)
contains.

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Color

**XYZ(21.1020, 32.1968,
31.4880)**

Conversions

Conversions Part 1

Format	Color
Hex	32AC90
RGB	50, 172, 144
RGB Percent	20%, 67%, 56%
CMY	0.8039, 0.3255, 0.4353
CMYK	0.71, 0.00, 0.16, 0.33
HSL	166°, 55%, 44%
HSV	166°, 71%, 67%
XYZ	21.1020, 32.1968, 31.4880
YIQ	132.3300, -63.7240, -34.5720

Conversions

Conversions Part 2

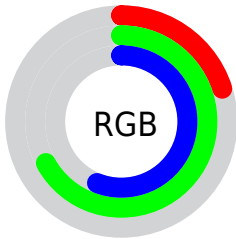
Format	Color
RYB	50, 119, 172
Decimal	3320976
CIELab	63.51, -39.93, 4.82
CIELCh	64, 40.225, 173.119
Yxy	32.1968, 0.2489, 0.3797
Android (android.graphics.Color)	4281511056 (0xFF32AC90)
YUV	132.3300, 5.7533, -72.2034
Hunter-Lab	56.7422, -32.9161, 6.8177

Details

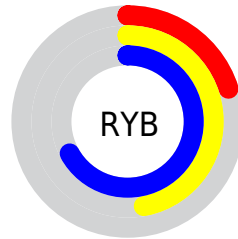
The XYZ color **21.1020, 32.1968, 31.4880** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **19.5301, 11.6028, 8.4193**, and the grayscale version is **22.0487, 23.1969, 25.2614**.

A 20% lighter version of the original color is **44.7465, 63.0747, 63.2423**, and **8.6172, 14.0018, 12.8381** is the 20% darker color. If you saturate the color by 10%, you get **20.1116, 31.7213, 29.8945**, and if you desaturate by 10%, it is **22.4233, 32.8432, 33.1535**.

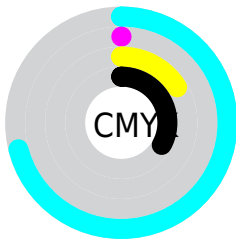
Distribution



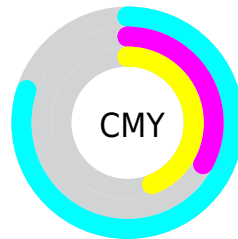
- Red (20%)
- Green (67%)
- Blue (56%)



- Red (20%)
- Yellow (47%)
- Blue (67%)



- Cyan (71%)
- Magenta (0%)
- Yellow (16%)
- Black (33%)



- Cyan (80%)
- Magenta (33%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.1020, 32.1968, 31.4880 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 21.1020, 32.1968, 31.4880 by changing the saturation by 10% instead.

■ 21.1020, 32.1968,
31.4880

■ 21.1020, 32.1968,
31.4880

250.5415,
312.0148, 323.2008

■ 13.3115, 21.5119,
20.7092

■ 44.7472, 63.1195,
63.0961

■ 7.7218, 13.4987,
12.7224

■ 61.3326, 84.1260,
84.7625

■ 3.9678, 7.7728,
7.1092

■ 81.5804, 109.3419,
110.8951

■ 1.6839, 3.9499,
3.4510

■ 105.8558,
139.1514, 141.9125

■ 0.4462, 1.6456,
1.3293

■ 134.5243,
173.9391, 178.2332

■ 0.0000, 0.3880,
0.0856

167.9512,

■ 0.0000, 0.0000,

214.0893, 220.2758

0.0000

206.5018,
259.9864, 268.4588

■ 21.1020, 32.1968,
31.4880

■ 21.1020, 32.1968,
31.4880

■ 20.1116, 31.7213,
29.8945

■ 22.4233, 32.8432,
33.1535

■ 19.4115, 31.3934,
28.3684

■ 24.1048, 33.6734,
34.8908

■ 18.9539, 31.1865,
27.0388

■ 26.1757, 34.7030,
36.7025

■ 28.6614, 35.9453,
38.5904

■ 31.5851, 37.4120,
40.5560

■ 34.9681, 39.1142,
42.6008

■ 38.8305, 41.0623,
44.7263

■ 43.1911, 43.2660,
46.9339

■ 48.0678, 45.7343,
49.2249

Harmonies

Analogous

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



22.7665, 32.1968, 19.6056



21.1020, 32.1968, 31.4880



21.7229, 32.1968, 48.6244

Triad

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



21.1020, 32.1968, 31.4880



35.0312, 32.1968, 71.7889



37.5356, 32.1968, 15.7120

Complementary

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



21.1020, 32.1968, 31.4880



19.5301, 11.6028, 8.4193

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.



41.6210, 32.1968, 24.2817



21.1020, 32.1968, 31.4880



40.0563, 32.1968, 57.0318

Square

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



21.1020, 32.1968, 31.4880



29.3292, 32.1968, 75.4891



42.5956, 32.1968, 38.8856



31.9113, 32.1968, 12.4769

Rectangle

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



21.1020, 32.1968, 31.4880



23.3910, 32.1968, 60.6652



42.5956, 32.1968, 38.8856



39.1610, 32.1968, 17.9105

Sweetspot

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



21.1029, 32.1981, 31.4888



57.0422, 67.7399, 73.4087



18.5096, 31.3762, 8.0989



12.0750, 14.5599, 15.7447



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.



21.1029, 32.1981, 31.4888



35.7134, 57.1815, 52.6670



18.0632, 22.2587, 42.3755



8.1565, 9.0402, 9.8491



14.1259, 23.2156, 20.2345



0.4120, 0.6534, 0.6632

Inverse Universe

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



19.5301, 11.6028, 8.4193



32.7821, 17.5781, 8.7679



20.6478, 15.1174, 4.8480



8.0778, 8.0444, 8.7203



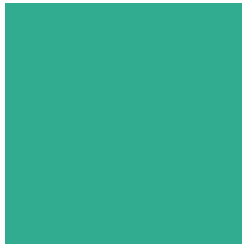
12.9571, 6.6454, 2.1537



0.3811, 0.1931, 0.1685

Previews

White Background



This preview shows how the XYZ color 21.1020, 32.1968, 31.4880 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 21.1020, 32.1968, 31.4880 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

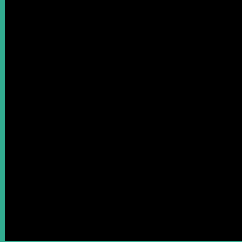
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 21.1020, 32.1968, 31.4880

Background



This preview shows how black text looks on a background with the XYZ color 21.1020, 32.1968, 31.4880.

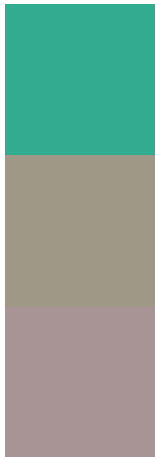


This preview shows how white text looks on a background with the XYZ color 21.1020, 32.1968,

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

21.1020, 32.1968, 31.4880

Protanopia

30.0285, 31.6513, 27.0809

Deuteranopia

32.3769, 31.7848, 32.8624



Tritanopia

24.4408, 32.1617, 48.0997

Trichromacy



Original Color

21.1020, 32.1968, 31.4880

Protanomaly

24.7313, 30.6243, 28.6524

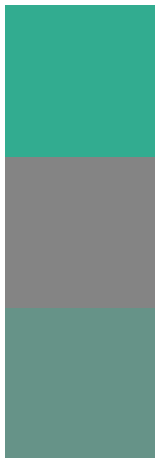
Deuteranomaly

25.9276, 30.6561, 32.1545

Tritanomaly

23.0875, 32.1581, 41.5495

Monochromacy



Original Color

21.1020, 32.1968, 31.4880

Achromatopsia

21.9318, 23.0740, 25.1276

Achromatomaly

20.3571, 25.4698, 27.1358

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.1020, 32.1968, 31.4880 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(50, 172, 144)` looks like.

```
.text, #text, p{  
    color:rgb(50, 172, 144)  
}
```

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(50, 172, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 172, 144) }
```

Border

The CSS property to change the border of an element to XYZ 21.1020, 32.1968, 31.4880 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(50, 172, 144) }
```


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

```
.border{ border-color:rgb(50, 172, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 172, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 172, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 172, 144);  
box-shadow:4px 4px 4px 4px rgb(50, 172,  
144) }
```

Background

The CSS property to change the background color of an element to XYZ 21.1020, 32.1968, 31.4880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 172, 144) }
```

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

```
.background{ background-color: rgb(50, 172,  
144) }
```

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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