

Converting Colors

XYZ(19.9875, 31.0965, 29.0221)

Have a look what the booklet for
XYZ(19.9875, 31.0965, 29.0221)
contains.

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Color

**XYZ(20.0009, 31.1199,
28.9973)**

Conversions

Conversions Part 1

Format	Color
Hex	2CAA8A
RGB	44, 170, 138
RGB Percent	17%, 67%, 54%
CMY	0.8274, 0.3333, 0.4588
CMYK	0.74, 0.00, 0.19, 0.33
HSL	165°, 59%, 42%
HSV	165°, 74%, 67%
XYZ	20.0009, 31.1199, 28.9973
YIQ	128.6780, -64.8240, -36.6640

Conversions

Conversions Part 2

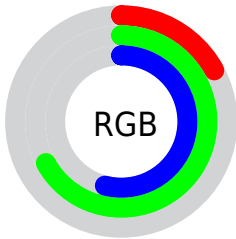
Format	Color
RYB	44, 116, 170
Decimal	2927242
CIELab	62.61, -41.43, 6.86
CIELCh	63, 41.995, 170.603
Yxy	31.1199, 0.2496, 0.3884
Android (android.graphics.Color)	4281117322 (0xFF2CAA8A)
YUV	128.6780, 4.5957, -74.2626
Hunter-Lab	55.7852, -33.6258, 8.2306

Details

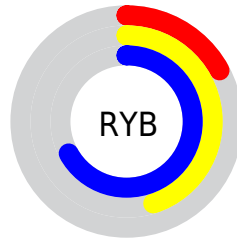
The XYZ color **20.0009, 31.1199, 28.9973** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **18.7839, 10.8701, 7.9470**, and the grayscale version is **20.7554, 21.8363, 23.7797**.

A 20% lighter version of the original color is **42.9070, 61.4055, 58.8812**, and **8.1227, 13.4272, 11.3961** is the 20% darker color. If you saturate the color by 10%, you get **19.1084, 30.6960, 27.3565**, and if you desaturate by 10%, it is **21.2066, 31.7054, 30.7191**.

Distribution



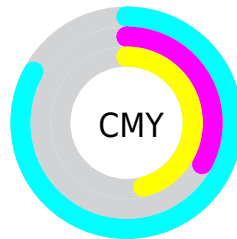
- Red (17%)
- Green (67%)
- Blue (54%)



- Red (17%)
- Yellow (45%)
- Blue (67%)



- Cyan (74%)
- Magenta (0%)
- Yellow (19%)
- Black (33%)



- Cyan (83%)
- Magenta (33%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0009, 31.1199, 28.9973 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 20.0009, 31.1199, 28.9973 by changing the saturation by 10% instead.

■ 20.0009, 31.1199,
28.9973

■ 20.0009, 31.1199,
28.9973

244.7535,
307.0903, 311.2628

■ 12.5040, 20.6902,
18.8332

■ 42.9226, 61.4288,
59.1149

■ 7.1625, 12.8977,
11.3742

■ 59.0781, 82.0767,
79.9056

■ 3.6112, 7.3581,
6.2018

■ 78.8505, 106.8996,
105.0754

■ 1.4846, 3.6871,
2.8974

■ 102.6052,
136.2816, 135.0431

■ 0.3153, 1.5001,
1.0425

■ 130.7074,
170.6073, 170.2272

■ 0.0000, 0.2888,
0.0000

163.5227,

■ 0.0000, 0.0000,

210.2611, 211.0461

0.0000

201.4162,
255.6273, 257.9184

■ 20.0009, 31.1199,
28.9973

■ 20.0009, 31.1199,
28.9973

■ 19.1084, 30.6960,
27.3565

■ 21.2066, 31.7054,
30.7191

■ 18.4873, 30.4098,
25.7918

■ 22.7557, 32.4657,
32.5218

■ 18.1946, 30.2782,
24.9040

■ 24.6776, 33.4167,
34.4084

■ 26.9976, 34.5715,
36.3806

■ 29.7391, 35.9420,
38.4403

■ 32.9233, 37.5392,
40.5892

■ 36.5702, 39.3735,
42.8288

■ 40.6984, 41.4543,
45.1607

■ 45.3256, 43.7908,
47.5864

Harmonies

Analogous

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



21.8678, 31.1199, 17.5670



20.0009, 31.1199, 28.9973



20.4322, 31.1199, 46.2201

Triad

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



20.0009, 31.1199, 28.9973



33.6198, 31.1199, 72.7445



37.1223, 31.1199, 14.9072

Complementary

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



20.0009, 31.1199, 28.9973



18.7839, 10.8701, 7.9470

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.



41.1135, 31.1199, 23.9654



20.0009, 31.1199, 28.9973



38.9173, 31.1199, 58.0644

Square

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



20.0009, 31.1199, 28.9973



27.8189, 31.1199, 75.4258



41.8096, 31.1199, 39.2916



31.4108, 31.1199, 11.3411

Rectangle

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



20.0009, 31.1199, 28.9973



21.9896, 31.1199, 58.7945



41.8096, 31.1199, 39.2916



38.7389, 31.1199, 17.2414

Sweetspot

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



20.0018, 31.1211, 28.9980



54.8894, 65.6780, 70.4006



17.9396, 30.5355, 7.3319



11.9251, 14.4884, 15.4763



82.5889, 86.8899, 94.6231



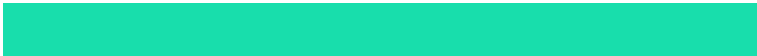
15.4596, 16.2647, 17.7123

Same Dimension

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



20.0018, 31.1211, 28.9980



33.8855, 55.3292, 47.7731



17.7615, 22.3711, 41.4135



7.6649, 8.4990, 9.2217



13.4070, 22.2816, 18.4419



0.3451, 0.5497, 0.5481

Inverse Universe

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



18.7839, 10.8701, 7.9470



31.6680, 16.6778, 8.1266



19.4422, 13.5468, 3.9736



7.6064, 7.5724, 8.2445



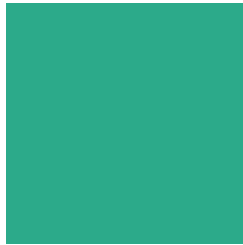
12.5375, 6.4237, 2.3762



0.3251, 0.1643, 0.1634

Previews

White Background



This preview shows how the XYZ color 20.0009, 31.1199, 28.9973 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 20.0009, 31.1199, 28.9973 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

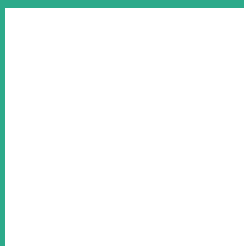
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.0009, 31.1199, 28.9973

Background



This preview shows how black text looks on a background with the XYZ color 20.0009, 31.1199, 28.9973.



This preview shows how white text looks on a background with the XYZ color 20.0009, 31.1199,

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

20.0009, 31.1199, 28.9973

Protanopia

28.9032, 30.6403, 24.8129

Deuteranopia

31.0197, 30.4495, 30.2290



Tritanopia

23.6710, 31.2484, 46.9034

Trichromacy



Original Color

20.0009, 31.1199, 28.9973

Protanomaly

23.5579, 29.5618, 26.2942

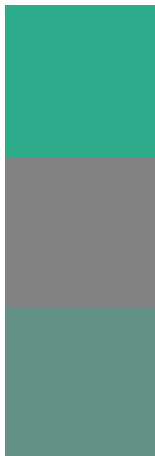
Deuteranomaly

24.3894, 29.1719, 29.5446

Tritanomaly

22.1169, 31.1516, 39.4975

Monochromacy



Original Color

20.0009, 31.1199, 28.9973

Achromatopsia

20.8660, 21.9526, 23.9064

Achromatomaly

19.1751, 24.2091, 25.4920

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0009, 31.1199, 28.9973 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(44, 170, 138)` looks like.

```
.text, #text, p{  
    color:rgb(44, 170, 138)  
}
```

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(44, 170, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(44, 170, 138) }
```

Border

The CSS property to change the border of an element to XYZ 20.0009, 31.1199, 28.9973 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(44, 170, 138) }
```


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

```
.border{ border-color:rgb(44, 170, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(44, 170, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(44, 170, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(44, 170, 138);  
box-shadow:4px 4px 4px 4px rgb(44, 170,  
138) }
```

Background

The CSS property to change the background color of an element to XYZ 20.0009, 31.1199, 28.9973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(44, 170, 138) }
```

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

```
.background{ background-color: rgb(44, 170,  
138) }
```

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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