

Converting Colors

XYZ(21.6670, 31.7720, 38.4197)

Have a look what the booklet for
XYZ(21.6670, 31.7720, 38.4197)
contains.

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Color

**XYZ(21.6343, 31.7589,
38.2475)**

Conversions

Conversions Part 1

Format	Color
Hex	29AAA0
RGB	41, 170, 160
RGB Percent	16%, 67%, 63%
CMY	0.8392, 0.3333, 0.3725
CMYK	0.76, 0.00, 0.06, 0.33
HSL	175°, 61%, 41%
HSV	175°, 76%, 67%
XYZ	21.6343, 31.7589, 38.2475
YIQ	130.2890, -73.6740, -30.4580

Conversions

Conversions Part 2

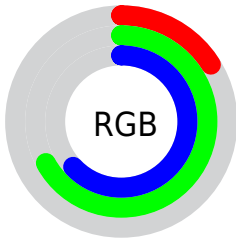
Format	Color
RYB	41, 108, 170
Decimal	2730656
CIELab	63.14, -35.85, -4.66
CIELCh	63, 36.152, 187.411
Yxy	31.7589, 0.2361, 0.3466
Android (android.graphics.Color)	4280920736 (0xFF29AAA0)
YUV	130.2890, 14.6475, -78.3065
Hunter-Lab	56.3550, -30.0964, -0.7909

Details

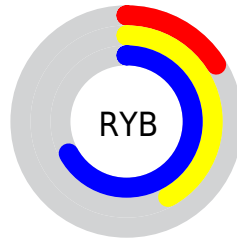
The XYZ color **21.6343, 31.7589, 38.2475** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.9691, 10.3718, 4.1879**, and the grayscale version is **21.2900, 22.3987, 24.3922**.

A 20% lighter version of the original color is **45.6464, 62.4872, 73.9454**, and **9.1216, 13.8267, 16.6561** is the 20% darker color. If you saturate the color by 10%, you get **20.9826, 31.4369, 37.6189**, and if you desaturate by 10%, it is **22.5818, 32.2347, 38.8977**.

Distribution



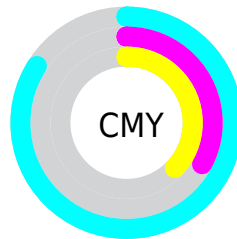
- Red (16%)
- Green (67%)
- Blue (63%)



- Red (16%)
- Yellow (42%)
- Blue (67%)



- Cyan (76%)
- Magenta (0%)
- Yellow (6%)
- Black (33%)



- Cyan (84%)
- Magenta (33%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.6343, 31.7589, 38.2475 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 21.6343, 31.7589, 38.2475 by changing the saturation by 10% instead.

■ 21.6343, 31.7589,
38.2475

■ 21.6343, 31.7589,
38.2475

253.2989,
310.0195, 354.0105

■ 13.7035, 21.1774,
25.8715

■ 45.6242, 62.4329,
73.6950

■ 7.9951, 13.2537,
16.5026

■ 62.4140, 83.2943,
97.6035

■ 4.1436, 7.6035,
9.7223

■ 82.8876, 108.3510,
126.1933

■ 1.7837, 3.8423,
5.1121

■ 107.4103,
137.9875, 159.8830

■ 0.5078, 1.5857,
2.2533

■ 136.3474,
172.5882, 199.0910

■ 0.0000, 0.3480,
0.7049

170.0643,

■ 0.0000, 0.0000,

212.5375, 244.2359

0.0000

208.9263,
258.2198, 295.7362

■ 21.6343, 31.7589,
38.2475

■ 21.6343, 31.7589,
38.2475

■ 20.9826, 31.4369,
37.6189

■ 22.5818, 32.2347,
38.8977

■ 20.5799, 31.2425,
37.0076

■ 23.8559, 32.8780,
39.5690

■ 20.4458, 31.1787,
36.7590

■ 25.4865, 33.7049,
40.2633

■ 27.4994, 34.7288,
40.9819

■ 29.9181, 35.9617,
41.7260

■ 32.7640, 37.4147,
42.4966

■ 36.0572, 39.0981,
43.2946

■ 39.8164, 41.0217,
44.1209

■ 44.0592, 43.1944,
44.9765

Harmonies

Analogous

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



22.1640, 31.7589, 25.0605



21.6343, 31.7589, 38.2475



23.1868, 31.7589, 54.1093

Triad

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



21.6343, 31.7589, 38.2475



36.3996, 31.7589, 61.3274



34.0243, 31.7589, 14.9052

Complementary

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



21.6343, 31.7589, 38.2475



17.9691, 10.3718, 4.1879

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.



38.4683, 31.7589, 20.4259



21.6343, 31.7589, 38.2475



39.9417, 31.7589, 46.2484

Square

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



21.6343, 31.7589, 38.2475



31.4407, 31.7589, 69.6226



40.7377, 31.7589, 31.1549



28.9649, 31.7589, 13.8585

Rectangle

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



21.6343, 31.7589, 38.2475



25.3063, 31.7589, 63.2910



40.7377, 31.7589, 31.1549



35.6555, 31.7589, 16.2075

Sweetspot

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



21.6352, 31.7601, 38.2483



55.4788, 65.8575, 76.0446



16.1793, 29.6342, 6.9658



11.9928, 14.4930, 16.8500



82.5889, 86.8899, 94.6231



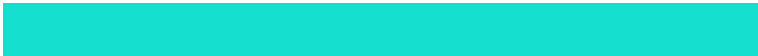
15.4596, 16.2647, 17.7123

Same Dimension

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



21.6352, 31.7601, 38.2483



37.5338, 56.7771, 67.4991



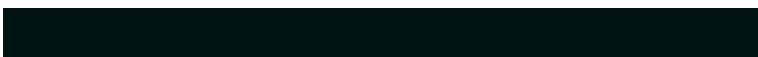
14.4455, 15.9235, 40.3437



7.7221, 8.5219, 9.5226



15.0490, 22.9384, 27.0885



0.3733, 0.5609, 0.6966

Inverse Universe

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



17.9691, 10.3718, 4.1879



30.6405, 16.1301, 3.1372



21.0487, 16.8469, 4.2409



7.5538, 7.5514, 7.9677



12.2578, 6.3118, 0.9032



0.3054, 0.1564, 0.0595

Previews

White Background



This preview shows how the XYZ color 21.6343, 31.7589, 38.2475 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 21.6343, 31.7589, 38.2475 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

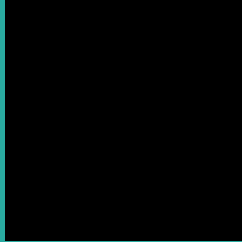
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 21.6343, 31.7589, 38.2475

Background



This preview shows how black text looks on a background with the XYZ color 21.6343, 31.7589, 38.2475.

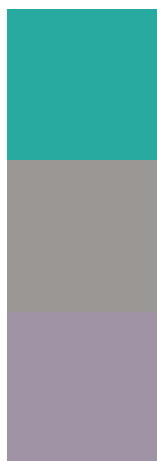


This preview shows how white text looks on a background with the XYZ color 21.6343, 31.7589,

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

21.6343, 31.7589, 38.2475

Protanopia

30.0090, 31.2717, 32.8882

Deuteranopia

31.7225, 31.0576, 39.9201



Tritanopia

23.7348, 31.7859, 48.6004

Trichromacy



Original Color

21.6343, 31.7589, 38.2475



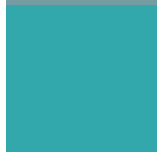
Protanomaly

24.9161, 30.3310, 34.6783



Deuteranomaly

25.6683, 29.8689, 39.0627



Tritanomaly

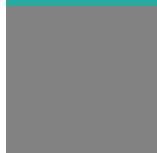
22.8608, 31.7005, 44.4491

Monochromacy



Original Color

21.6343, 31.7589, 38.2475



Achromatopsia

21.2178, 22.3228, 24.3095



Achromatomaly

19.9701, 24.7706, 28.9280

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.6343, 31.7589, 38.2475 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(41, 170, 160)` looks like.

```
.text, #text, p{  
    color:rgb(41, 170, 160)  
}
```

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(41, 170, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 170, 160) }
```

Border

The CSS property to change the border of an element to XYZ 21.6343, 31.7589, 38.2475 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(41, 170, 160) }
```


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

```
.border{ border-color:rgb(41, 170, 160) }
```

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

Here you see how a box with a 4 pixel rgb(41, 170, 160) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 170, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 170, 160);  
box-shadow:4px 4px 4px 4px rgb(41, 170,  
160) }
```

Background

The CSS property to change the background color of an element to XYZ 21.6343, 31.7589, 38.2475 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 170, 160) }
```

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

```
.background{ background-color: rgb(41, 170,  
160) }
```

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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