

Converting Colors

XYZ(20.3711, 31.4917, 28.6242)

Have a look what the booklet for
XYZ(20.3711, 31.4917, 28.6242)
contains.

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Color

**XYZ(20.4435, 31.6358,
28.6957)**

Conversions

Conversions Part 1

Format	Color
Hex	33AB89
RGB	51, 171, 137
RGB Percent	20%, 67%, 54%
CMY	0.8000, 0.3294, 0.4627
CMYK	0.70, 0.00, 0.20, 0.33
HSL	163°, 54%, 44%
HSV	163°, 70%, 67%
XYZ	20.4435, 31.6358, 28.6957
YIQ	131.2440, -60.6060, -36.0140

Conversions

Conversions Part 2

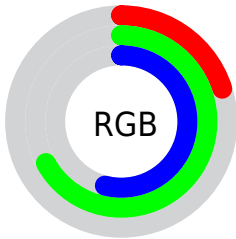
Format	Color
RYB	51, 121, 171
Decimal	3386249
CIELab	63.04, -41.12, 8.05
CIELCh	63, 41.896, 168.923
Yxy	31.6358, 0.2531, 0.3917
Android (android.graphics.Color)	4281576329 (0xFF33AB89)
YUV	131.2440, 2.8377, -70.3740
Hunter-Lab	56.2457, -33.5510, 9.1231

Details

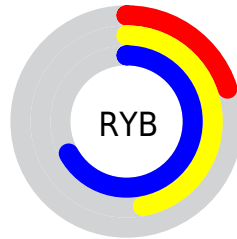
The XYZ color **20.4435, 31.6358, 28.6957** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **19.6192, 11.6822, 9.8164**, and the grayscale version is **21.6672, 22.7955, 24.8244**.

A 20% lighter version of the original color is **43.5734, 62.1666, 58.4180**, and **8.1987, 13.6450, 11.2185** is the 20% darker color. If you saturate the color by 10%, you get **19.3955, 31.1356, 26.8733**, and if you desaturate by 10%, it is **21.8256, 32.3080, 30.6166**.

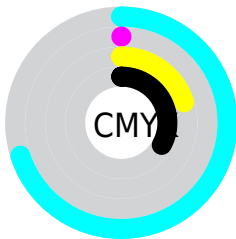
Distribution



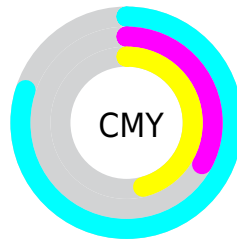
- Red (20%)
- Green (67%)
- Blue (54%)



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



- Cyan (70%)
- Magenta (0%)
- Yellow (20%)
- Black (33%)




- Cyan (80%)
- Magenta (33%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.4435, 31.6358, 28.6957 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 20.4435, 31.6358, 28.6957 by changing the saturation by 10% instead.


 20.4435, 31.6358,
28.6957


 20.4435, 31.6358,
28.6957


247.0941,
309.4568, 309.7923


 12.8280, 21.0835,
18.6071


 43.6578, 62.2397,
58.6297


 7.3864, 13.1850,
11.2128


 59.9873, 83.0601,
79.3122


 3.7534, 7.5561,
6.0942


 79.9521, 108.0719,
104.3631

 1.5636, 3.8122,
2.8327

 103.9177,
137.6596, 134.2009

 0.3685, 1.5691,
1.0099

 132.2493,
172.2075, 169.2442

 0.0000, 0.3366,
0.0000

165.3123,

 0.0000, 0.0000,

212.1001, 209.9115

0.0000

203.4721,
257.7218, 256.6214

■ 20.4435, 31.6358,
28.6957

■ 20.4435, 31.6358,
28.6957

■ 19.3955, 31.1356,
26.8733

■ 21.8256, 32.3080,
30.6166

■ 18.6422, 30.7847,
25.1445

■ 23.5707, 33.1648,
32.6364

■ 18.1105, 30.5457,
23.5327

■ 25.7073, 34.2215,
34.7580

■ 28.2602, 35.4909,
36.9837

■ 31.2523, 36.9849,
39.3154

■ 34.7047, 38.7142,
41.7552

■ 38.6371, 40.6891,
44.3049

■ 43.0680, 42.9190,
46.9664

■ 48.0151, 45.4130,
49.7413

Harmonies

Analogous

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



22.4579, 31.6358, 17.5041



20.4435, 31.6358, 28.6957



20.7488, 31.6358, 45.8101

Triad

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



20.4435, 31.6358, 28.6957



33.8117, 31.6358, 74.0854



37.9626, 31.6358, 15.6187

Complementary

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



20.4435, 31.6358, 28.6957



19.6192, 11.6822, 9.8164

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.



41.8303, 31.6358, 25.1363



20.4435, 31.6358, 28.6957



39.2302, 31.6358, 59.8215

Square

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



20.4435, 31.6358, 28.6957



27.9876, 31.6358, 75.9760



42.3218, 31.6358, 40.9174



32.2509, 31.6358, 11.7289

Rectangle

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



20.4435, 31.6358, 28.6957



22.2380, 31.6358, 58.5096



42.3218, 31.6358, 40.9174



39.5511, 31.6358, 18.0931

Sweetspot

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



20.4444, 31.6370, 28.6964



55.2846, 65.8932, 69.8990



19.0919, 31.3924, 8.1855



11.9974, 14.5289, 15.3360



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.



20.4444, 31.6370, 28.6964



33.9573, 55.3953, 46.4617



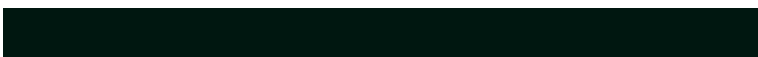
19.1506, 24.5127, 42.2517



8.1381, 9.0328, 9.7521



13.6755, 23.0355, 17.8627



0.4023, 0.6496, 0.6121

Inverse Universe

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



19.6192, 11.6822, 9.8164



32.4679, 17.4469, 10.9540



19.9092, 13.9300, 4.7719



8.0951, 8.0513, 8.8114



13.0899, 6.6985, 2.8531



0.3878, 0.1958, 0.2041

Previews

White Background



This preview shows how the XYZ color 20.4435, 31.6358, 28.6957 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 20.4435, 31.6358, 28.6957 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 20.4435, 31.6358, 28.6957

Background



This preview shows how black text looks on a background with the XYZ color 20.4435, 31.6358, 28.6957.

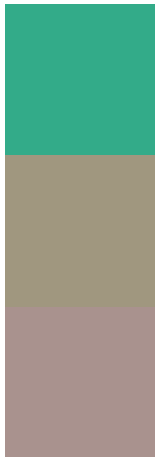


This preview shows how white text looks on a background with the XYZ color 20.4435, 31.6358,

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

20.4435, 31.6358, 28.6957

Protanopia

29.3946, 31.1391, 24.5399

Deuteranopia

31.5236, 30.9458, 29.9028



Tritanopia

24.1176, 31.4670, 47.4504

Trichromacy



Original Color

20.4435, 31.6358, 28.6957

Protanomaly

24.0693, 30.0855, 26.0112

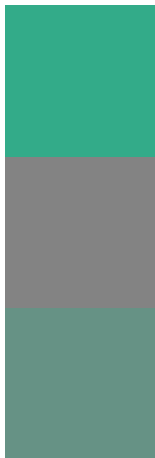
Deuteranomaly

25.0592, 29.7718, 29.2367

Tritanomaly

22.5695, 31.3745, 39.9883

Monochromacy



Original Color

20.4435, 31.6358, 28.6957

Achromatopsia

21.5731, 22.6966, 24.7166

Achromatomaly

19.9920, 25.0760, 25.9768

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4435, 31.6358, 28.6957 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(51, 171, 137)` looks like.

```
.text, #text, p{  
    color:rgb(51, 171, 137)  
}
```

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(51, 171, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 171, 137) }
```

Border

The CSS property to change the border of an element to XYZ 20.4435, 31.6358, 28.6957 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(51, 171, 137) }
```


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

```
.border{ border-color:rgb(51, 171, 137) }
```

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

Here you see how a box with a 4 pixel rgb(51, 171, 137) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 171, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 171, 137);  
box-shadow:4px 4px 4px 4px rgb(51, 171,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4435, 31.6358, 28.6957 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 171, 137) }
```

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

```
.background{ background-color: rgb(51, 171,  
137) }
```

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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