

Converting Colors

XYZ(21.9476, 33.6388, 38.1703)

Have a look what the booklet for
XYZ(21.9476, 33.6388, 38.1703)
contains.

XYZ(21.9350, 33.6320, 38.1364)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(21.9350, 33.6320,
38.1364)**

Conversions

Conversions Part 1

Format	Color
Hex	0CB09F
RGB	12, 176, 159
RGB Percent	5%, 69%, 62%
CMY	0.9528, 0.3098, 0.3765
CMYK	0.93, 0.00, 0.10, 0.31
HSL	174°, 87%, 37%
HSV	174°, 93%, 69%
XYZ	21.9350, 33.6320, 38.1364
YIQ	125.0260, -92.2870, -40.0550

Conversions

Conversions Part 2

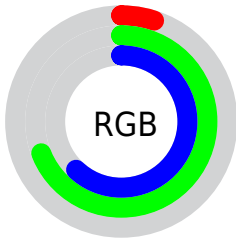
Format	Color
RYB	12, 98, 176
Decimal	831647
CIELab	64.67, -41.02, -1.89
CIELCh	65, 41.064, 182.644
Yxy	33.6320, 0.2341, 0.3589
Android (android.graphics.Color)	4279021727 (0xFF0CB09F)
YUV	125.0260, 16.7492, -99.1238
Hunter-Lab	57.9931, -33.9730, 1.6059

Details

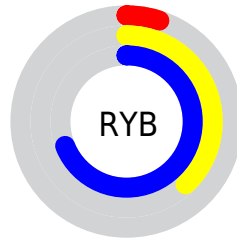
The XYZ color **21.9350, 33.6320, 38.1364** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **18.2590, 9.5829, 2.0517**, and the grayscale version is **19.4727, 20.4868, 22.3101**.

A 20% lighter version of the original color is **46.0312, 65.1649, 73.7703**, and **9.6663, 15.0018, 16.5735** is the 20% darker color. If you saturate the color by 10%, you get **21.6762, 33.5118, 37.5628**, and if you desaturate by 10%, it is **22.4682, 33.8892, 38.9950**.

Distribution



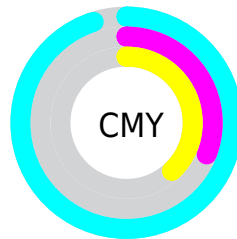
- Red (5%)
- Green (69%)
- Blue (62%)



- Red (5%)
- Yellow (38%)
- Blue (69%)



- Cyan (93%)
- Magenta (0%)
- Yellow (10%)
- Black (31%)





- Cyan (95%)
- Magenta (31%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.9350, 33.6320, 38.1364 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 21.9350, 33.6320, 38.1364 by changing the saturation by 10% instead.


 21.9350, 33.6320,
38.1364


 21.9350, 33.6320,
38.1364

254.8454,
318.4880, 353.5204


 13.9255, 22.6110,
25.7859


 46.1182, 65.3610,
73.5229


 8.1502, 14.3066,
16.4392


 63.0226, 86.8378,
97.3960


 4.2438, 8.3342,
9.6778


 83.6226, 112.5687,
125.9470

 1.8410, 4.3095,
5.0830

 108.2837,
142.9380, 159.5946

 0.5422, 1.8482,
2.2365

 137.3712,
178.3303, 198.7571

 0.0000, 0.5169,
0.6953

 171.2504,

 0.0000, 0.0000,

219.1297, 243.8533

0.0000

210.2867,
265.7209, 295.3015

■ 21.9350, 33.6320,
38.1364

■ 21.9350, 33.6320,
38.1364

■ 21.6762, 33.5118,
37.5628

■ 22.4682, 33.8892,
38.9950

■ 23.2884, 34.2933,
39.8784

■ 24.4385, 34.8672,
40.7897

■ 25.9536, 35.6291,
41.7304

■ 27.8643, 36.5946,
42.7020

■ 30.1980, 37.7778,
43.7058

■ 32.9795, 39.1917,
44.7432

■ 36.2319, 40.8480,
45.8151

■ 39.9765, 42.7577,
46.9227

Harmonies

Analogous

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



22.9255, 33.6320, 23.6457



21.9350, 33.6320, 38.1364



23.3467, 33.6320, 57.0502

Triad

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



21.9350, 33.6320, 38.1364



38.4728, 33.6320, 71.2837



37.4579, 33.6320, 14.7055

Complementary

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



21.9350, 33.6320, 38.1364



18.2590, 9.5829, 2.0517

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.



42.4824, 33.6320, 21.7618



21.9350, 33.6320, 38.1364



43.1171, 33.6320, 53.6375

Square

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



21.9350, 33.6320, 38.1364



32.4916, 33.6320, 79.5157



44.6667, 33.6320, 35.1434



31.4466, 33.6320, 12.8353

Rectangle

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



21.9350, 33.6320, 38.1364



25.5750, 33.6320, 68.9258



44.6667, 33.6320, 35.1434



39.3422, 33.6320, 16.4147

Sweetspot

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



21.9360, 33.6333, 38.1372



57.0222, 69.6598, 80.1374



16.1623, 31.3721, 5.5523



11.9148, 14.8714, 17.1963



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



21.9360, 33.6333, 38.1372



39.2626, 60.7576, 67.8627



13.9102, 15.0559, 43.2485



8.7039, 9.6161, 10.7005



15.9164, 24.5925, 27.6262



0.5116, 0.7781, 0.9263

Inverse Universe

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



18.2590, 9.5829, 2.0517



32.6356, 16.8055, 2.3767



20.4799, 14.2737, 2.0244



8.5310, 8.5191, 9.0286



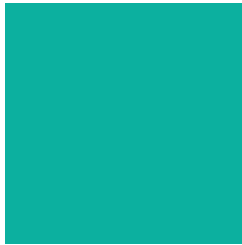
13.2294, 6.8093, 1.1019



0.4278, 0.2189, 0.0956

Previews

White Background



This preview shows how the XYZ color 21.9350, 33.6320, 38.1364 looks on a white background.

Color Contrast Check

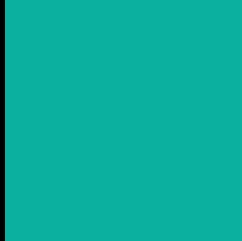
Large Text (above 18pt) WCAG AA × Fail

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 21.9350, 33.6320, 38.1364 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

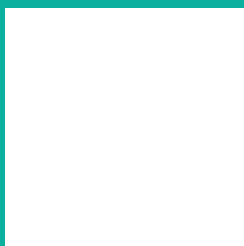
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.9350, 33.6320, 38.1364

Background



This preview shows how black text looks on a background with the XYZ color 21.9350, 33.6320, 38.1364.

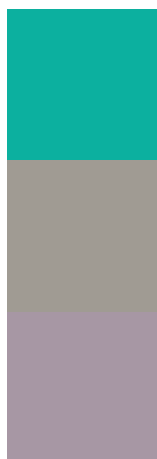


This preview shows how white text looks on a background with the XYZ color 21.9350, 33.6320,

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

21.9350, 33.6320, 38.1364

Protanopia

31.4850, 33.0229, 32.3184

Deuteranopia

33.7038, 33.0290, 39.7208



Tritanopia

24.6976, 33.6081, 51.6397

Trichromacy



Original Color

21.9350, 33.6320, 38.1364



Protanomaly

24.6270, 31.4929, 34.0589



Deuteranomaly

25.6479, 31.1298, 38.8393



Tritanomaly

23.4072, 33.3451, 46.2768

Monochromacy



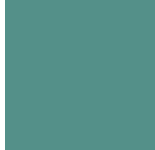
Original Color

21.9350, 33.6320, 38.1364



Achromatopsia

19.4927, 20.5079, 22.3331



Achromatomaly

18.1448, 23.6375, 27.2731

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.9350, 33.6320, 38.1364 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(12, 176, 159)` looks like.

```
.text, #text, p{  
    color:rgb(12, 176, 159)  
}
```

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(12, 176, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 176, 159) }
```

Border

The CSS property to change the border of an element to XYZ 21.9350, 33.6320, 38.1364 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(12, 176, 159) }
```


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

```
.border{ border-color:rgb(12, 176, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 176, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 176, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 176, 159);  
box-shadow:4px 4px 4px 4px rgb(12, 176,  
159) }
```

Background

The CSS property to change the background color of an element to XYZ 21.9350, 33.6320, 38.1364 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 176, 159) }
```

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

```
.background{ background-color: rgb(12, 176,  
159) }
```

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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