

Converting Colors

XYZ(20.7982, 33.3800, 28.8444)

Have a look what the booklet for
XYZ(20.7982, 33.3800, 28.8444)
contains.

XYZ(20.7338, 33.2141, 28.9851)	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(20.7338, 33.2141,
28.9851)**

Conversions

Conversions Part 1

Format	Color
Hex	23B089
RGB	35, 176, 137
RGB Percent	14%, 69%, 54%
CMY	0.8627, 0.3098, 0.4627
CMYK	0.80, 0.00, 0.22, 0.31
HSL	163°, 67%, 41%
HSV	163°, 80%, 69%
XYZ	20.7338, 33.2141, 28.9851
YIQ	129.3950, -71.5170, -42.0210

Conversions

Conversions Part 2

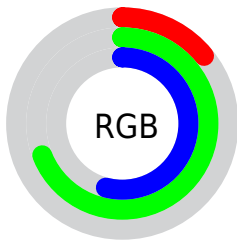
Format	Color
RYB	35, 117, 176
Decimal	2338953
CIELab	64.33, -45.28, 9.85
CIELCh	64, 46.337, 167.728
Yxy	33.2141, 0.2500, 0.4005
Android (android.graphics.Color)	4280529033 (0xFF23B089)
YUV	129.3950, 3.7493, -82.7844
Hunter-Lab	57.6317, -36.6376, 10.5230

Details

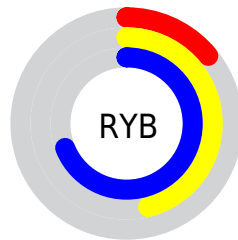
The XYZ color **20.7338, 33.2141, 28.9851** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **19.7426, 10.9274, 7.5486**, and the grayscale version is **21.0111, 22.1053, 24.0727**.

A 20% lighter version of the original color is **43.9766, 64.4342, 58.8344**, and **8.6798, 14.6072, 11.3788** is the 20% darker color. If you saturate the color by 10%, you get **19.9384, 32.8443, 27.1663**, and if you desaturate by 10%, it is **21.8462, 33.7471, 30.9025**.

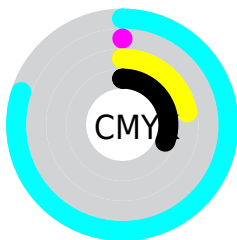
Distribution



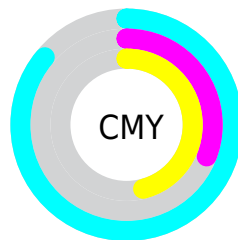
- Red (14%)
- Green (69%)
- Blue (54%)



- Red (14%)
- Yellow (46%)
- Blue (69%)



- Cyan (80%)
- Magenta (0%)
- Yellow (22%)
- Black (31%)





- Cyan (86%)
- Magenta (31%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.7338, 33.2141, 28.9851 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 20.7338, 33.2141, 28.9851 by changing the saturation by 10% instead.


 20.7338, 33.2141,
28.9851

 20.7338, 33.2141,
28.9851


248.6190,
316.6134, 311.2034


 13.0409, 22.2905,
18.8241

 44.1387, 64.7096,
59.0953

 7.5339, 14.0705,
11.3677


 60.5814, 86.0504,
79.8816


 3.8475, 8.1697,
6.1975


 80.6715, 111.6323,
105.0467

 1.6162, 4.2037,
2.8948

 104.7742,
141.8398, 135.0091

 0.4029, 1.7882,
1.0412

 133.2549,
177.0573, 170.1875

 0.0000, 0.4798,
0.0000

166.4791,

 0.0000, 0.0000,

217.6691, 211.0003

0.0000

204.8120,
264.0597, 257.8661

■ 20.7338, 33.2141,
28.9851

■ 20.7338, 33.2141,
28.9851

■ 19.9384, 32.8443,
27.1663

■ 21.8462, 33.7471,
30.9025

■ 19.3774, 32.5924,
25.4573

■ 23.3126, 34.4600,
32.9190

■ 25.1675, 35.3712,
35.0381

■ 27.4407, 36.4962,
37.2621

■ 30.1588, 37.8487,
39.5934

■ 33.3463, 39.4412,
42.0339

■ 37.0259, 41.2854,
44.5858

■ 41.2186, 43.3922,
47.2510

■ 45.9444, 45.7718,
50.0313

Harmonies

Analogous

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



23.0891, 33.2141, 16.8318



20.7338, 33.2141, 28.9851



20.9706, 33.2141, 48.3805

Triad

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



20.7338, 33.2141, 28.9851



35.5874, 33.2141, 82.9243



40.8843, 33.2141, 15.4069

Complementary

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



20.7338, 33.2141, 28.9851



19.7426, 10.9274, 7.5486

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.



45.2449, 33.2141, 26.2002



20.7338, 33.2141, 28.9851



41.9061, 33.2141, 66.4856

Square

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



20.7338, 33.2141, 28.9851



28.9510, 33.2141, 84.4888



45.6429, 33.2141, 44.4412



34.3402, 33.2141, 11.0285

Rectangle

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



20.7338, 33.2141, 28.9851



22.5686, 33.2141, 63.2314



45.6429, 33.2141, 44.4412



42.6912, 33.2141, 18.1909

Sweetspot

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



20.7347, 33.2154, 28.9859



57.8785, 70.2313, 74.3009



18.7275, 32.6672, 6.9090



12.1142, 15.0060, 15.7699



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.



20.7347, 33.2154, 28.9859



35.3927, 59.2229, 46.8842



18.7250, 23.8818, 44.6985



8.6404, 9.5906, 10.3658



14.2428, 23.9231, 18.8132



0.4713, 0.7620, 0.7138

Inverse Universe

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



19.7426, 10.9274, 7.5486



33.6819, 17.3834, 7.3948



20.1310, 13.1965, 3.0768



8.5898, 8.5426, 9.3381



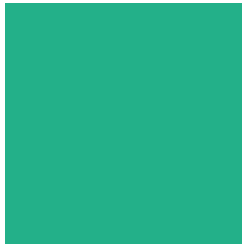
13.5606, 6.9418, 2.8460



0.4520, 0.2285, 0.2228

Previews

White Background



This preview shows how the XYZ color 20.7338, 33.2141, 28.9851 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 20.7338, 33.2141, 28.9851 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 20.7338, 33.2141, 28.9851

Background



This preview shows how black text looks on a background with the XYZ color 20.7338, 33.2141, 28.9851.

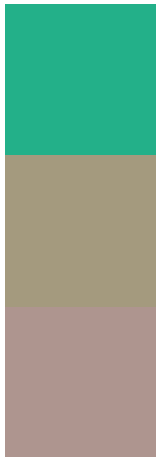


This preview shows how white text looks on a background with the XYZ color 20.7338, 33.2141,

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

20.7338, 33.2141, 28.9851

Protanopia

30.6313, 32.5101, 24.3993

Deuteranopia

33.1609, 32.4767, 30.5075



Tritanopia

25.0764, 33.2669, 50.4469

Trichromacy



Original Color

20.7338, 33.2141, 28.9851



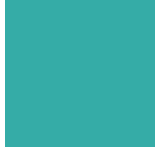
Protanomaly

24.2857, 31.2343, 25.8679



Deuteranomaly

25.3742, 30.9303, 29.8321



Tritanomaly

23.1958, 33.0520, 41.7163

Monochromacy



Original Color

20.7338, 33.2141, 28.9851



Achromatopsia

20.8660, 21.9526, 23.9064



Achromatomaly

19.1631, 24.6566, 25.5790

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.7338, 33.2141, 28.9851 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(35, 176, 137)` looks like.

```
.text, #text, p{  
    color:rgb(35, 176, 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(35, 176, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 176, 137) }
```

Border

The CSS property to change the border of an element to XYZ 20.7338, 33.2141, 28.9851 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(35, 176, 137) }
```


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

```
.border{ border-color:rgb(35, 176, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 176, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 176, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 176, 137);  
box-shadow:4px 4px 4px 4px rgb(35, 176,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 20.7338, 33.2141, 28.9851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 176, 137) }
```

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

```
.background{ background-color: rgb(35, 176,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor