

Converting Colors

XYZ(33.8316, 20.6604, 2.2047)

Have a look what the booklet for
XYZ(33.8316, 20.6604, 2.2047)
contains.

XYZ(33.8687, 20.7112, 2.2126)	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(33.8687, 20.7112,
2.2126)**

Conversions

Conversions Part 1

Format	Color
Hex	E34600
RGB	227, 70, 0
RGB Percent	89%, 27%, 0%
CMY	0.1098, 0.7254, 1.0000
CMYK	0.00, 0.69, 1.00, 0.11
HSL	19°, 100%, 45%
HSV	19°, 100%, 89%
XYZ	33.8687, 20.7112, 2.2126
YIQ	108.9630, 116.0420, 11.5140

Conversions

Conversions Part 2

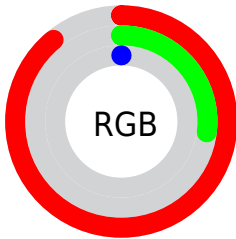
Format	Color
R_{YB}	227, 101, 0
Decimal	14894592
CIE Lab	52.63, 58.65, 63.75
CIE LCh	53, 86.629, 47.387
Yxy	20.7112, 0.5964, 0.3647
Android (android.graphics.Color)	4293084672 (0xFFE34600)
YUV	108.9630, -53.7188, 103.5184
Hunter-Lab	45.5096, 53.1999, 28.9741

Details

The XYZ color **33.8687, 20.7112, 2.2126** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **25.9207, 29.6573, 77.0307**, and the grayscale version is **14.6512, 15.4142, 16.7861**.

A 20% lighter version of the original color is **49.5432, 36.5186, 8.8525**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **33.8689, 20.7121, 2.2127**, and if you desaturate by 10%, it is **35.1347, 23.0008, 3.3829**.

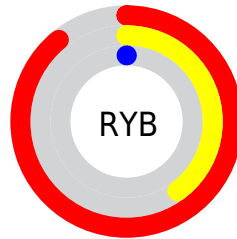
Distribution



Red (89%)

Green (27%)

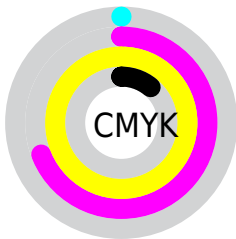
Blue (0%)



Red (89%)

Yellow (40%)

Blue (0%)

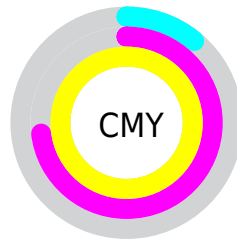


Cyan (0%)

Magenta (69%)

Yellow (100%)

Black (11%)



Cyan (11%)


Magenta (73%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.8687, 20.7112, 2.2126 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 33.8687, 20.7112, 2.2126 by changing the saturation by 10% instead.

 33.8687, 20.7112,
2.2126


 33.8687, 20.7112,
2.2126


311.1424,
255.7397, 125.5953


 22.9552, 12.9131,
0.6816


 65.0751, 44.6064,
9.6143


 14.6809, 7.3687,
0.0000


 86.0986, 61.4722,
16.3488


 8.6806, 3.6937,
0.0000


 111.2229, 82.1294,
25.6638

 4.5889, 1.5038,
0.0000

 140.8132,
106.9624, 37.9779

 2.0404, 0.2914,
0.0000

 175.2350,
136.3555, 53.7095

 0.6565, 0.0000,
0.0000


 214.8536,


 0.0000, 0.0000,


170.6932, 73.2773


0.0000


 260.0342,
210.3598, 97.0997


 33.8687, 20.7112,
2.2126


 33.8687, 20.7112,
2.2126


 33.8689, 20.7121,
2.2127

 35.1347, 23.0008,
3.3829

 36.8532, 25.9103,
5.5824

 39.0987, 29.4972,
9.1182

 41.9193, 33.8050,
14.1688

 45.3569, 38.8734,
20.8846

■ 49.4490, 44.7386,
29.3976

■ 54.2299, 51.4346,
39.8266

■ 59.7315, 58.9931,
52.2799

■ 65.9833, 67.4441,
66.8579

Harmonies

Analogous

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



41.2305, 20.7112, 10.7525



33.8687, 20.7112, 2.2126



23.7083, 20.7112, 0.4339

Triad

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



33.8687, 20.7112, 2.2126



7.1724, 20.7112, 13.3727



25.3186, 20.7112, 110.5266

Complementary

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



33.8687, 20.7112, 2.2126



25.9207, 29.6573, 77.0307

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.



16.1454, 20.7112, 113.6363



33.8687, 20.7112, 2.2126



7.3642, 20.7112, 40.8250

Square

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



33.8687, 20.7112, 2.2126



9.5040, 20.7112, 2.8930



10.1448, 20.7112, 82.1658



35.3524, 20.7112, 75.4499

Rectangle

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



33.8687, 20.7112, 2.2126



17.5446, 20.7112, 0.3380



10.1448, 20.7112, 82.1658



21.9936, 20.7112, 115.9567

Sweetspot

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



33.8691, 20.7124, 2.2129



70.4686, 66.7793, 51.5588



37.9277, 18.8306, 34.3913



14.4955, 13.4749, 9.7400



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



33.8691, 20.7124, 2.2129



44.0104, 26.8007, 2.8535



48.3245, 49.6231, 7.0314



14.7377, 15.0894, 15.0402



19.8436, 12.2614, 1.3208



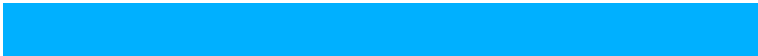
1.5465, 1.0664, 0.1243

Inverse Universe

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



25.9207, 29.6573, 77.0307



33.6453, 38.4105, 100.2484



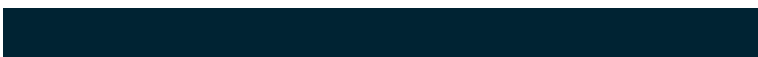
14.8189, 7.4537, 73.3301



14.4128, 15.5469, 18.3856



15.2250, 17.5121, 44.9609



1.2066, 1.4571, 3.3496

Previews

White Background



This preview shows how the XYZ color 33.8687, 20.7112, 2.2126 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 33.8687, 20.7112, 2.2126 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 × Fail

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

XYZ 33.8687, 20.7112, 2.2126

Background



This preview shows how black text looks on a background with the XYZ color 33.8687, 20.7112, 2.2126.



This preview shows how white text looks on a background with the XYZ color 33.8687, 20.7112,

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

33.8687, 20.7112, 2.2126

Protanopia

18.9202, 20.9997, 3.9759

Deuteranopia

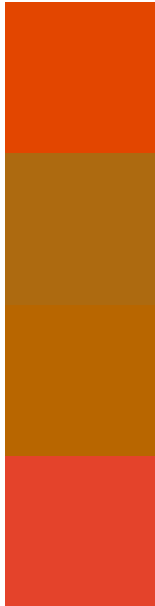
21.0145, 20.8039, 2.9080



Tritanopia

34.9286, 20.6919, 7.6218

Trichromacy



Original Color

33.8687, 20.7112, 2.2126

Protanomaly

22.4811, 19.2297, 3.0170

Deuteranomaly

24.5185, 19.6931, 2.5089

Tritanomaly

34.4381, 20.6827, 4.4626

Monochromacy



Original Color

33.8687, 20.7112, 2.2126

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

18.1153, 15.2895, 7.6266

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.8687, 20.7112, 2.2126 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(227, 70, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 70, 0)  
}
```

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(227, 70, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 70, 0) }
```

Border

The CSS property to change the border of an element to XYZ 33.8687, 20.7112, 2.2126 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(227, 70, 0) }
```


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

```
.border{ border-color:rgb(227, 70, 0) }
```

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

Here you see how a box with a 4 pixel rgb(227, 70, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 70, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 70, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 70, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 33.8687, 20.7112, 2.2126 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 70, 0) }
```

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

```
.background{ background-color: rgb(227, 70,  
0) }
```

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