

Converting Colors

XYZ(33.2213, 20.0511, 4.6019)

Have a look what the booklet for
XYZ(33.2213, 20.0511, 4.6019)
contains.

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Color

**XYZ(33.2213, 20.0511,
4.6019)**

Conversions

Conversions Part 1

Format	Color
Hex	E0432D
RGB	224, 67, 45
RGB Percent	88%, 26%, 18%
CMY	0.1216, 0.7372, 0.8235
CMYK	0.00, 0.70, 0.80, 0.12
HSL	7°, 74%, 53%
HSV	7°, 80%, 88%
XYZ	33.2213, 20.0511, 4.6019
YIQ	111.4350, 100.6340, 26.4420

Conversions

Conversions Part 2

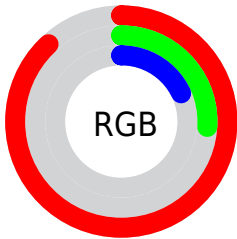
Format	Color
R_{YB}	224, 70, 45
Decimal	14697261
CIE Lab	51.89, 59.55, 47.39
CIE LCh	52, 76.112, 38.513
Yxy	20.0511, 0.5740, 0.3465
Android (android.graphics.Color)	4292887341 (0xFFE0432D)
YUV	111.4350, -32.7525, 98.7195
Hunter-Lab	44.7785, 54.0675, 25.2517

Details

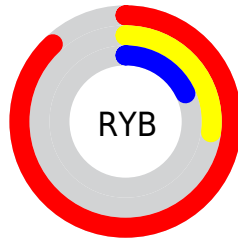
The XYZ color **33.2213, 20.0511, 4.6019** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **35.6546, 48.1755, 77.9401**, and the grayscale version is **15.3091, 16.1064, 17.5398**.

A 20% lighter version of the original color is **50.4234, 36.4656, 14.7369**, and **14.4972, 7.4736, 0.6785** is the 20% darker color. If you saturate the color by 10%, you get **31.9221, 17.9698, 2.5758**, and if you desaturate by 10%, it is **35.1459, 23.0182, 7.9640**.

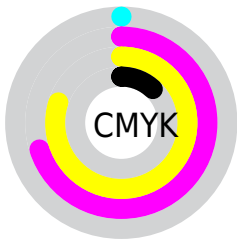
Distribution



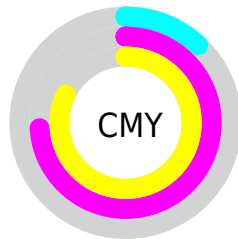
- Red (88%)
- Green (26%)
- Blue (18%)



- Red (88%)
- Yellow (27%)
- Blue (18%)



- Cyan (0%)
- Magenta (70%)
- Yellow (80%)
- Black (12%)





- Cyan (12%)
- Magenta (74%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.2213, 20.0511, 4.6019 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 33.2213, 20.0511, 4.6019 by changing the saturation by 10% instead.


 33.2213, 20.0511,
4.6019


 33.2213, 20.0511,
4.6019


308.2931,
252.1916, 154.6974


 22.4561, 12.4322,
1.9610


 64.0732, 43.5028,
15.3757


 14.3109, 7.0387,
0.5312


 84.8907, 60.1045,
24.3457


 8.4203, 3.4863,
0.0000


 109.7896, 80.4691,
36.2625

 4.4191, 1.3906,
0.0000

 139.1352,
104.9812, 51.5447

 1.9419, 0.2098,
0.0000

 173.2931,
134.0251, 70.6107

 0.6010, 0.0000,
0.0000

 212.6284,

 0.0000, 0.0000,

167.9852, 93.8791

0.0000

257.5067,
207.2459, 121.7685

■ 33.2213, 20.0511,
4.6019

■ 33.2213, 20.0511,
4.6019

■ 31.9221, 17.9698,
2.5758

■ 35.1459, 23.0182,
7.9640

■ 31.1500, 16.6649,
1.5806

■ 37.7625, 26.9525,
12.8405

■ 31.1448, 16.6562,
1.5735

■ 41.1303, 31.9299,
19.3831

■ 45.3017, 38.0178,
27.7250

■ 50.3244, 45.2781,
37.9857

■ 56.2423, 53.7677,
50.2744

■ 63.0963, 63.5401,
64.6922

■ 70.9248, 74.6456,
81.3334

■ 79.7640, 87.1317,
100.2866

Harmonies

Analogous

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



37.8705, 20.0511, 16.1155



33.2213, 20.0511, 4.6019



25.0399, 20.0511, 1.3455

Triad

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



33.2213, 20.0511, 4.6019



8.3001, 20.0511, 9.6536



21.3450, 20.0511, 96.8352

Complementary

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



33.2213, 20.0511, 4.6019



35.6546, 48.1755, 77.9401

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.



14.1138, 20.0511, 90.2664



33.2213, 20.0511, 4.6019



7.8104, 20.0511, 28.7625

Square

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



33.2213, 20.0511, 4.6019



11.2174, 20.0511, 2.5882



9.6301, 20.0511, 60.5348



29.8976, 20.0511, 74.9814

Rectangle

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



33.2213, 20.0511, 4.6019



19.4465, 20.0511, 0.9360



9.6301, 20.0511, 60.5348



18.6747, 20.0511, 98.0683

Sweetspot

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



33.2217, 20.0523, 4.6022



71.9177, 67.0712, 60.0768



42.4720, 22.0414, 58.5884



14.7936, 13.4950, 11.6155



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.



33.2217, 20.0523, 4.6022



42.0649, 22.8204, 2.4806



42.9991, 39.6071, 7.8613



13.8423, 13.9707, 14.2738



18.1732, 9.7843, 0.9307



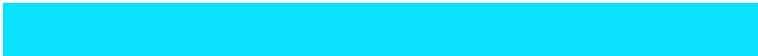
1.3049, 0.7687, 0.0796

Inverse Universe

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



35.6546, 48.1755, 77.9401



45.0754, 61.0813, 104.0219



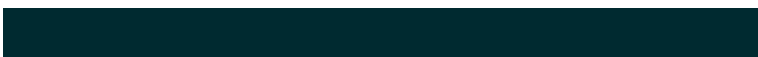
20.5109, 17.8881, 72.8922



13.9652, 15.2696, 17.5990



19.4391, 26.3478, 45.1094



1.3884, 1.9082, 3.1404

Previews

White Background



This preview shows how the XYZ color 33.2213, 20.0511, 4.6019 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 33.2213, 20.0511, 4.6019 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 33.2213, 20.0511, 4.6019

Background



This preview shows how black text looks on a background with the XYZ color 33.2213, 20.0511, 4.6019.



This preview shows how white text looks on a background with the XYZ color 33.2213, 20.0511,

4.6019.

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

33.2213, 20.0511, 4.6019

Protanopia

18.3665, 20.0706, 7.3209

Deuteranopia

20.4361, 20.1237, 4.1035



Tritanopia

33.8979, 20.0796, 7.3993

Trichromacy



Original Color

33.2213, 20.0511, 4.6019

Protanomaly

21.9020, 18.4113, 6.0138

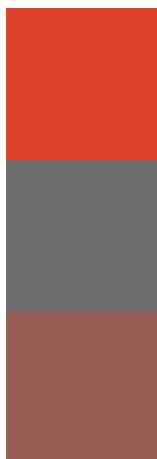
Deuteranomaly

23.8363, 18.8748, 4.0560

Tritanomaly

33.7311, 20.1039, 6.2403

Monochromacy



Original Color

33.2213, 20.0511, 4.6019

Achromatopsia

15.1092, 15.8961, 17.3108

Achromatomaly

18.7614, 15.5479, 11.0290

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.2213, 20.0511, 4.6019 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(224, 67, 45)` looks like.

```
.text, #text, p{  
    color:rgb(224, 67, 45)  
}
```

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(224, 67, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 67, 45) }
```

Border

The CSS property to change the border of an element to XYZ 33.2213, 20.0511, 4.6019 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(224, 67, 45) }
```


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

```
.border{ border-color:rgb(224, 67, 45) }
```

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

Here you see how a box with a 4 pixel rgb(224, 67, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 67, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 67, 45);  
box-shadow:4px 4px 4px 4px rgb(224, 67,  
45) }
```

Background

The CSS property to change the background color of an element to XYZ 33.2213, 20.0511, 4.6019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 67, 45) }
```

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

```
.background{ background-color: rgb(224, 67,  
45) }
```

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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