

Converting Colors

XYZ(32.0485, 20.4009, 0.1648)

Have a look what the booklet for
XYZ(32.0485, 20.4009, 0.1648)
contains.

XYZ(32.4032, 20.5410, 2.2570)	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(32.4032, 20.5410,
2.2570)**

Conversions

Conversions Part 1

Format	Color
Hex	DD4C00
RGB	221, 76, 0
RGB Percent	87%, 30%, 0%
CMY	0.1333, 0.7019, 1.0000
CMYK	0.00, 0.66, 1.00, 0.13
HSL	21°, 100%, 43%
HSV	21°, 100%, 87%
XYZ	32.4032, 20.5410, 2.2570
YIQ	110.6910, 110.8160, 7.1040

Conversions

Conversions Part 2

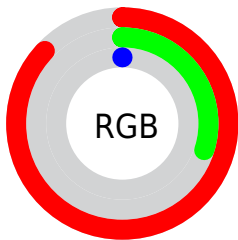
Format	Color
RYB	221, 116, 0
Decimal	14502912
CIELab	52.44, 54.28, 63.07
CIELCh	52, 83.206, 49.284
Yxy	20.5410, 0.5870, 0.3721
Android (android.graphics.Color)	4292692992 (0xFFDD4C00)
YUV	110.6910, -54.5707, 96.7410
Hunter-Lab	45.3222, 48.3052, 28.7729

Details

The XYZ color **32.4032, 20.5410, 2.2570** 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 **23.1756, 25.4695, 72.1006**, and the grayscale version is **15.1516, 15.9406, 17.3593**.

A 20% lighter version of the original color is **50.2258, 37.8404, 9.2142**, and **13.9915, 7.3418, 0.6797** is the 20% darker color. If you saturate the color by 10%, you get **32.4034, 20.5418, 2.2571**, and if you desaturate by 10%, it is **33.6636, 22.8288, 3.3965**.

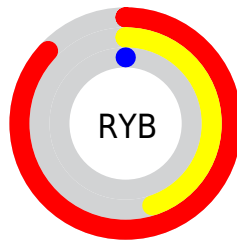
Distribution



Red (87%)

Green (30%)

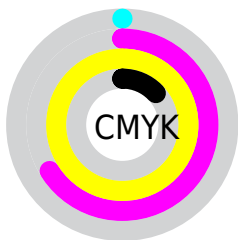
Blue (0%)



Red (87%)

Yellow (45%)

Blue (0%)

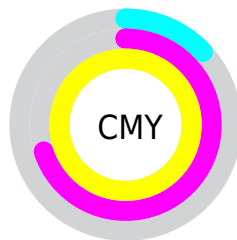


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (13%)



Cyan (13%)


Magenta (70%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 32.4032, 20.5410, 2.2570 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 32.4032, 20.5410, 2.2570 by changing the saturation by 10% instead.


 32.4032, 20.5410,
2.2570

 32.4032, 20.5410,
2.2570


304.6646,
254.8290, 126.2479


 21.8267, 12.7889,
0.7070


 62.8036, 44.3224,
9.7322

 13.8455, 7.2833,
0.0000


 83.3582, 61.1204,
16.5167

 8.0943, 3.6399,
0.0000


 107.9695, 81.7026,
25.8905

 4.2076, 1.4743,
0.0000

 137.0029,
106.4533, 38.2721

 1.8203, 0.2705,
0.0000

 170.8238,
135.7569, 54.0801

 0.5298, 0.0000,
0.0000


 209.7975,


 0.0000, 0.0000,


169.9978, 73.7331


0.0000


 254.2893,
209.5603, 97.6495


 32.4032, 20.5410,
2.2570


 32.4032, 20.5410,
2.2570


 32.4034, 20.5418,
2.2571

 33.6636, 22.8288,
3.3965

 35.3294, 25.6602,
5.4939

 37.4683, 29.0837,
8.8404

 40.1228, 33.1353,
13.6016

 43.3300, 37.8477,
19.9178

■ 47.1230, 43.2507,
27.9118

■ 51.5320, 49.3725,
37.6940

■ 56.5852, 56.2394,
49.3655

■ 62.3087, 63.8762,
63.0197

Harmonies

Analogous

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



39.6352, 20.5410, 10.0972



32.4032, 20.5410, 2.2570



22.7590, 20.5410, 0.6058

Triad

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



32.4032, 20.5410, 2.2570



7.3749, 20.5410, 14.6719



25.5031, 20.5410, 103.3338

Complementary

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



32.4032, 20.5410, 2.2570



23.1756, 25.4695, 72.1006

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.



16.6104, 20.5410, 108.4923



32.4032, 20.5410, 2.2570



7.7138, 20.5410, 41.9108

Square

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



32.4032, 20.5410, 2.2570



9.4886, 20.5410, 3.5230



10.6089, 20.5410, 80.8024



34.9118, 20.5410, 69.5961

Rectangle

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



32.4032, 20.5410, 2.2570



16.9779, 20.5410, 0.5806



10.6089, 20.5410, 80.8024



22.3118, 20.5410, 109.0815

Sweetspot

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



32.4036, 20.5422, 2.2573



71.1121, 68.0663, 51.7733



35.1113, 17.4892, 29.2667



14.6453, 13.7745, 9.7899



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.



32.4036, 20.5422, 2.2573



44.7052, 28.1903, 3.0851



46.9937, 49.7223, 7.1207



13.4204, 13.7801, 13.6781



18.9190, 12.1236, 1.3429



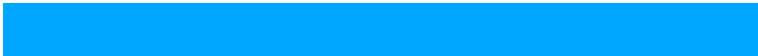
1.3044, 0.9428, 0.1132

Inverse Universe

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



23.1756, 25.4695, 72.1006



31.9237, 34.9675, 99.6746



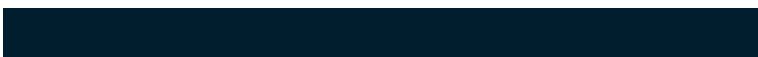
13.7076, 6.5335, 68.9446



13.0482, 14.0362, 16.6737



13.5723, 15.0141, 41.9211



0.9583, 1.1308, 2.7422

Previews

White Background



This preview shows how the XYZ color 32.4032, 20.5410, 2.2570 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 32.4032, 20.5410, 2.2570 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 32.4032, 20.5410, 2.2570

Background



This preview shows how black text looks on a background with the XYZ color 32.4032, 20.5410, 2.2570.



This preview shows how white text looks on a background with the XYZ color 32.4032, 20.5410,

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

32.4032, 20.5410, 2.2570

Protanopia

18.7708, 20.7344, 3.8234

Deuteranopia

20.8949, 20.5646, 2.8681



Tritanopia

33.6474, 20.5441, 8.8486

Trichromacy



Original Color

32.4032, 20.5410, 2.2570

Protanomaly

22.2434, 19.4175, 3.0275

Deuteranomaly

24.1417, 19.6456, 2.5196

Tritanomaly

33.0402, 20.5081, 5.0133

Monochromacy



Original Color

32.4032, 20.5410, 2.2570

Achromatopsia

15.1092, 15.8961, 17.3108

Achromatomaly

18.2675, 15.7696, 8.0423

CSS Examples

Text

The CSS property to change the color of the text to XYZ 32.4032, 20.5410, 2.2570 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(221, 76, 0)` looks like.

```
.text, #text, p{  
    color:rgb(221, 76, 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(221, 76, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 76, 0) }
```

Border

The CSS property to change the border of an element to XYZ 32.4032, 20.5410, 2.2570 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(221, 76, 0) }
```


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

```
.border{ border-color:rgb(221, 76, 0) }
```

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

Here you see how a box with a 4 pixel rgb(221, 76, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 76, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 76, 0);  
box-shadow:4px 4px 4px 4px rgb(221, 76, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 32.4032, 20.5410, 2.2570 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 76, 0) }
```

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

```
.background{ background-color: rgb(221, 76,  
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](#).

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