

Converting Colors

XYZ(31.2957, 21.1609, 2.4350)

Have a look what the booklet for
XYZ(31.2957, 21.1609, 2.4350)
contains.

XYZ(31.4325, 21.2635, 2.4476)	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(31.4325, 21.2635,
2.4476)**

Conversions

Conversions Part 1

Format	Color
Hex	D75700
RGB	215, 87, 0
RGB Percent	84%, 34%, 0%
CMY	0.1569, 0.6588, 1.0000
CMYK	0.00, 0.60, 1.00, 0.16
HSL	24°, 100%, 42%
HSV	24°, 100%, 84%
XYZ	31.4325, 21.2635, 2.4476
YIQ	115.3540, 104.2150, 0.0790

Conversions

Conversions Part 2

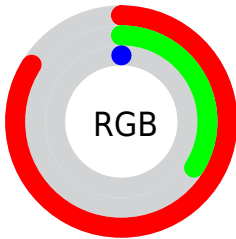
Format	Color
R _Y B	215, 146, 0
Decimal	14112512
CIE Lab	53.24, 47.33, 62.93
CIE LCh	53, 78.743, 53.051
Yxy	21.2635, 0.5700, 0.3856
Android (android.graphics.Color)	4292302592 (0xFFD75700)
YUV	115.3540, -56.8695, 87.3895
Hunter-Lab	46.1124, 40.9779, 29.1316

Details

The XYZ color **31.4325, 21.2635, 2.4476** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed red. A complement of this color would be **19.9842, 20.3434, 67.1627**, and the grayscale version is **16.5498, 17.4117, 18.9613**.

A 20% lighter version of the original color is **51.6621, 40.6686, 9.8296**, and **13.4654, 7.7084, 0.7782** is the 20% darker color. If you saturate the color by 10%, you get **31.4327, 21.2642, 2.4477**, and if you desaturate by 10%, it is **32.7029, 23.5805, 3.5621**.

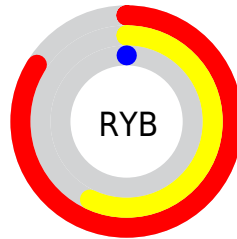
Distribution



Red (84%)

Green (34%)

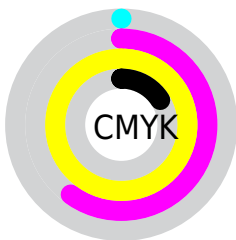
Blue (0%)



Red (84%)

Yellow (57%)

Blue (0%)

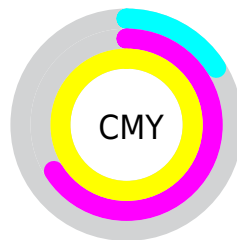


Cyan (0%)

Magenta (60%)

Yellow (100%)

Black (16%)



Cyan (16%)


Magenta (66%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.4325, 21.2635, 2.4476 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 31.4325, 21.2635, 2.4476 by changing the saturation by 10% instead.


 31.4325, 21.2635,
2.4476


 31.4325, 21.2635,
2.4476


300.3173,
258.6756, 128.9801


 21.0818, 13.3167,
0.8122


 61.2916, 45.5257,
10.2319

 13.2966, 7.6470,
0.0000


 81.5307, 62.6099,
17.2257


 7.7115, 3.8699,
0.0000

 105.7967, 83.5087,
26.8454

 3.9612, 1.6011,
0.0000

 134.4550,
108.6065, 39.5094

 1.6802, 0.3583,
0.0000

 167.8708,
138.2877, 55.6363


 0.4438, 0.0000,
0.0000


 206.4096,


 0.0000, 0.0000,


172.9366, 75.6447


0.0000


 250.4366,
212.9378, 99.9531


 31.4325, 21.2635,
2.4476


 31.4325, 21.2635,
2.4476


 31.4327, 21.2642,
2.4477

 32.7029, 23.5805,
3.5621

 34.3216, 26.3442,
5.5619

 36.3491, 29.5933,
8.7224

 38.8220, 33.3550,
13.1971

 41.7720, 37.6540,
19.1158

■ 45.2273, 42.5130,
26.5925

■ 49.2138, 47.9533,
35.7296

■ 53.7553, 53.9946,
46.6206

■ 58.8741, 60.6559,
59.3521

Harmonies

Analogous

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



38.7939, 21.2635, 9.4476



31.4325, 21.2635, 2.4476



22.2083, 21.2635, 0.9524

Triad

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



31.4325, 21.2635, 2.4476



8.1263, 21.2635, 18.0396



27.1436, 21.2635, 96.0764

Complementary

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



31.4325, 21.2635, 2.4476



19.9842, 20.3434, 67.1627

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.



18.3359, 21.2635, 104.9114



31.4325, 21.2635, 2.4476



8.7746, 21.2635, 46.1237

Square

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



31.4325, 21.2635, 2.4476



9.9318, 21.2635, 5.0886



12.0385, 21.2635, 82.4608



35.8805, 21.2635, 63.0563

Rectangle

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



31.4325, 21.2635, 2.4476



16.8088, 21.2635, 1.0570



12.0385, 21.2635, 82.4608



24.0423, 21.2635, 102.6095

Sweetspot

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



31.4330, 21.2647, 2.4479



72.2392, 70.3205, 52.1490



31.9866, 16.0320, 22.1780



14.9088, 14.3015, 9.8778



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.



31.4330, 21.2647, 2.4479



46.1095, 30.9990, 3.5532



47.2047, 52.8081, 7.7052



12.8317, 13.2376, 13.0395



18.8986, 12.9145, 1.4967



1.2200, 0.9391, 0.1170

Inverse Universe

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



19.9842, 20.3434, 67.1627



29.2469, 29.6138, 98.7823



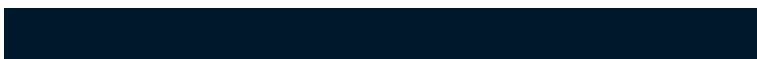
12.5432, 5.4613, 64.6823



12.3511, 13.2256, 15.8393



12.0594, 12.3805, 40.2072



0.8076, 0.9073, 2.4519

Previews

White Background



This preview shows how the XYZ color 31.4325, 21.2635, 2.4476 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 31.4325, 21.2635, 2.4476 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 31.4325, 21.2635, 2.4476

Background



This preview shows how black text looks on a background with the XYZ color 31.4325, 21.2635, 2.4476.



This preview shows how white text looks on a background with the XYZ color 31.4325, 21.2635,

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

31.4325, 21.2635, 2.4476

Protanopia

19.3561, 21.4218, 3.8241

Deuteranopia

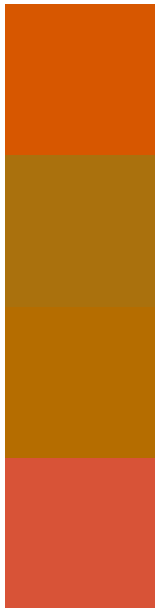
21.5353, 21.2518, 2.9670



Tritanopia

33.2374, 21.3085, 11.1652

Trichromacy



Original Color

31.4325, 21.2635, 2.4476

Protanomaly

22.5553, 20.3854, 3.1267

Deuteranomaly

24.5247, 20.7610, 2.7147

Tritanomaly

32.1017, 21.0613, 5.9877

Monochromacy



Original Color

31.4325, 21.2635, 2.4476

Achromatopsia

16.2955, 17.1441, 18.6699

Achromatomaly

19.0167, 17.1635, 8.6139

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4325, 21.2635, 2.4476 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(215, 87, 0)` looks like.

```
.text, #text, p{  
    color:rgb(215, 87, 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(215, 87, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 87, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.4325, 21.2635, 2.4476 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(215, 87, 0) }
```


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

```
.border{ border-color:rgb(215, 87, 0) }
```

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

Here you see how a box with a 4 pixel rgb(215, 87, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 87, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 87, 0);  
box-shadow:4px 4px 4px 4px rgb(215, 87, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.4325, 21.2635, 2.4476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 87, 0) }
```

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

```
.background{ background-color: rgb(215, 87,  
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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