

Converting Colors

XYZ(29.9865, 20.8974, 2.4531)

Have a look what the booklet for
XYZ(29.9865, 20.8974, 2.4531)
contains.

XYZ(29.9507, 20.8676, 2.4493)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	28
CSS Examples	31

Color

**XYZ(29.9507, 20.8676,
2.4493)**

Conversions

Conversions Part 1

Format	Color
Hex	D15A00
RGB	209, 90, 0
RGB Percent	82%, 35%, 0%
CMY	0.1804, 0.6470, 1.0000
CMYK	0.00, 0.57, 1.00, 0.18
HSL	26°, 100%, 41%
HSV	26°, 100%, 82%
XYZ	29.9507, 20.8676, 2.4493
YIQ	115.3210, 99.8140, -2.7620

Conversions

Conversions Part 2

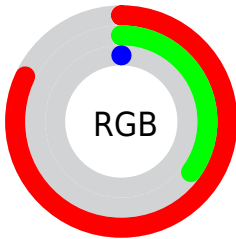
Format	Color
R_{YB}	209, 158, 0
Decimal	13720064
CIE _{Lab}	52.80, 43.68, 62.17
CIE _{LCh}	53, 75.978, 54.911
Yxy	20.8676, 0.5623, 0.3918
Android (android.graphics.Color)	4291910144 (0xFFD15A00)
YUV	115.3210, -56.8533, 82.1565
Hunter-Lab	45.6811, 37.0913, 28.7978

Details

The XYZ color **29.9507, 20.8676, 2.4493** 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 **18.1052, 17.7967, 62.8021**, and the grayscale version is **16.5405, 17.4018, 18.9506**.

A 20% lighter version of the original color is **51.9597, 41.2638, 9.9288**, and **12.5156, 7.4341, 0.7753** is the 20% darker color. If you saturate the color by 10%, you get **29.9508, 20.8682, 2.4494**, and if you desaturate by 10%, it is **31.1710, 23.0934, 3.5195**.

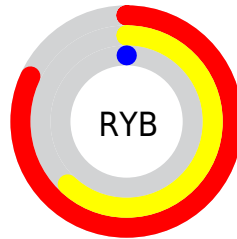
Distribution



Red (82%)

Green (35%)

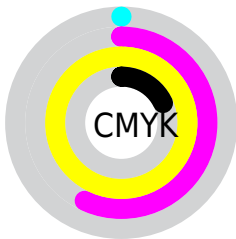
Blue (0%)



Red (82%)

Yellow (62%)

Blue (0%)

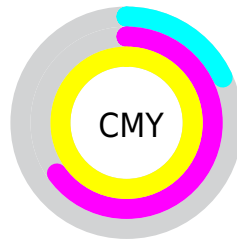


Cyan (0%)

Magenta (57%)

Yellow (100%)

Black (18%)



Cyan (18%)


Magenta (65%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 29.9507, 20.8676, 2.4493 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 29.9507, 20.8676, 2.4493 by changing the saturation by 10% instead.


 29.9507, 20.8676,
2.4493


 29.9507, 20.8676,
2.4493


293.5885,
256.5740, 129.0040


 19.9491, 13.0273,
0.8131


 58.9714, 44.8671,
10.2363

 12.4661, 7.4473,
0.0000


 78.7211, 61.7950,
17.2319


 7.1364, 3.7434,
0.0000


 102.4509, 82.5209,
26.8538

 3.5946, 1.5311,
0.0000

 130.5262,
107.4292, 39.5202

 1.4755, 0.3105,
0.0000

 163.3122,
136.9043, 55.6500

 0.3090, 0.0000,
0.0000


 201.1744,


 0.0000, 0.0000,


171.3305, 75.6615


0.0000


 244.4780,
211.0923, 99.9733


 29.9507, 20.8676,
2.4493


 29.9507, 20.8676,
2.4493


 29.9508, 20.8682,
2.4494

 31.1710, 23.0934,
3.5195

 32.7043, 25.7120,
5.4115

 34.6066, 28.7574,
8.3864

 36.9111, 32.2531,
12.5868

 39.6463, 36.2200,
18.1333

■ 42.8377, 40.6776,
25.1319

■ 46.5084, 45.6440,
33.6777

■ 50.6800, 51.1360,
43.8579

■ 55.3725, 57.1700,
55.7529

Harmonies

Analogous

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



37.1208, 20.8676, 8.8470



29.9507, 20.8676, 2.4493



21.2171, 20.8676, 1.0783

Triad

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



29.9507, 20.8676, 2.4493



8.1953, 20.8676, 19.0648



26.9728, 20.8676, 89.7706

Complementary

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



29.9507, 20.8676, 2.4493



18.1052, 17.7967, 62.8021

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.



18.5124, 20.8676, 99.8470



29.9507, 20.8676, 2.4493



8.9721, 20.8676, 46.5174

Square

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



29.9507, 20.8676, 2.4493



9.7927, 20.8676, 5.7310



12.2983, 20.8676, 80.4366



35.1050, 20.8676, 58.1910

Rectangle

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



29.9507, 20.8676, 2.4493



16.1643, 20.8676, 1.2575



12.2983, 20.8676, 80.4366



24.0209, 20.8676, 96.4048

Sweetspot

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



29.9512, 20.8688, 2.4496



72.7309, 71.3040, 52.3129



29.8022, 14.9585, 19.7025



15.0242, 14.5323, 9.9162



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.



29.9512, 20.8688, 2.4496



46.7958, 32.3717, 3.7819



45.0527, 51.0718, 7.4835



12.2214, 12.6335, 12.4064



18.5607, 13.0544, 1.5415



1.1159, 0.8861, 0.1122

Inverse Universe

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



18.1052, 17.7967, 62.8021



28.2039, 27.5278, 98.4346



11.7157, 5.0176, 60.6723



11.7143, 12.5189, 15.0426



11.2626, 11.1718, 38.7553



0.7077, 0.7807, 2.1929

Previews

White Background



This preview shows how the XYZ color 29.9507, 20.8676, 2.4493 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 29.9507, 20.8676, 2.4493 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 29.9507, 20.8676, 2.4493

Background



This preview shows how black text looks on a background with the XYZ color 29.9507, 20.8676, 2.4493.



This preview shows how white text looks on a background with the XYZ color 29.9507, 20.8676,

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

29.9507, 20.8676, 2.4493

Protanopia

19.0433, 21.0689, 3.7248

Deuteranopia

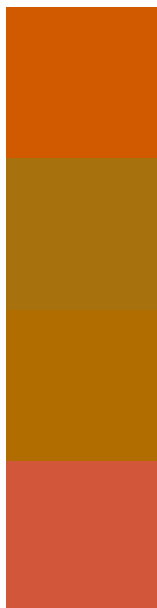
21.2137, 20.9065, 2.9173



Tritanopia

31.8375, 20.9108, 11.8094

Trichromacy



Original Color

29.9507, 20.8676, 2.4493

Protanomaly

22.0263, 20.2792, 3.1341

Deuteranomaly

23.8287, 20.4023, 2.6821

Tritanomaly

30.6446, 20.6526, 6.2421

Monochromacy



Original Color

29.9507, 20.8676, 2.4493

Achromatopsia

16.2955, 17.1441, 18.6699

Achromatomaly

18.7511, 17.1787, 8.6309

CSS Examples

Text

The CSS property to change the color of the text to XYZ 29.9507, 20.8676, 2.4493 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(209, 90, 0)` looks like.

```
.text, #text, p{  
    color:rgb(209, 90, 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(209, 90, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 90, 0) }
```

Border

The CSS property to change the border of an element to XYZ 29.9507, 20.8676, 2.4493 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(209, 90, 0) }
```


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

```
.border{ border-color:rgb(209, 90, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(209, 90, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 90, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 90, 0);  
box-shadow:4px 4px 4px 4px rgb(209, 90, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 29.9507, 20.8676, 2.4493 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 90, 0) }
```

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

```
.background{ background-color: rgb(209, 90,  
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