

Converting Colors

XYZ(42.0559, 22.8918, 2.2020)

Have a look what the booklet for
XYZ(42.0559, 22.8918, 2.2020)
contains.

XYZ(42.0680, 22.9159, 2.2060)	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(42.0680, 22.9159,
2.2060)**

Conversions

Conversions Part 1

Format	Color
Hex	FF2A00
RGB	255, 42, 0
RGB Percent	100%, 16%, 0%
CMY	0.0000, 0.8352, 1.0000
CMYK	0.00, 0.84, 1.00, 0.00
HSL	10°, 100%, 50%
HSV	10°, 100%, 100%
XYZ	42.0680, 22.9159, 2.2060
YIQ	100.8990, 140.4300, 32.0940

Conversions

Conversions Part 2

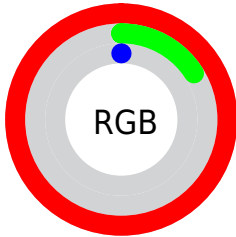
Format	Color
RYB	255, 50, 0
Decimal	16722432
CIELab	54.99, 75.07, 67.87
CIELCh	55, 101.200, 42.114
Yxy	22.9159, 0.6261, 0.3411
Android (android.graphics.Color)	4294912512 (0xFFFF2A00)
YUV	100.8990, -49.7432, 135.1466
Hunter-Lab	47.8706, 73.0899, 30.7772

Details

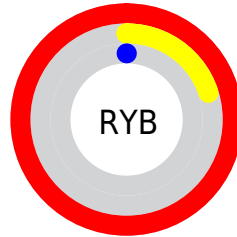
The XYZ color **42.0680, 22.9159, 2.2060** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **41.8392, 54.7985, 102.9791**, and the grayscale version is **12.4452, 13.0933, 14.2587**.

A 20% lighter version of the original color is **47.7667, 32.9658, 8.2603**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **42.0684, 22.9172, 2.2062**, and if you desaturate by 10%, it is **43.2159, 24.9228, 3.4812**.

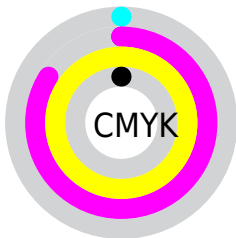
Distribution



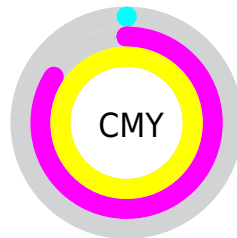
- Red (100%)
- Green (16%)
- Blue (0%)



- Red (100%)
- Yellow (20%)
- Blue (0%)



- Cyan (0%)
- Magenta (84%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (84%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 42.0680, 22.9159, 2.2060 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 42.0680, 22.9159, 2.2060 by changing the saturation by 10% instead.


 42.0680, 22.9159,
2.2060

 42.0680, 22.9159,
2.2060


345.7516,
267.2927, 125.4977


 29.3459, 14.5314,
0.6778


 77.5670, 48.2552,
9.5967


 19.4882, 8.4912,
0.0000


 101.0747, 65.9788,
16.3237

 12.1297, 4.4108,
0.0000


 128.9082, 87.5842,
25.6300

 6.9049, 1.9059,
0.0000

 161.4330,
113.4559, 37.9339

 3.4485, 0.5519,
0.0000

 199.0143,
143.9782, 53.6541


 1.3951, 0.0000,
0.0000

 242.0177,


 0.2528, 0.0000,


179.5355, 73.2091


0.0000


 290.8083,
220.5122, 97.0175


 0.0000, 0.0000,
0.0000


 42.0680, 22.9159,
2.2060


 42.0680, 22.9159,
2.2060


 42.0684, 22.9172,
2.2062

 43.2159, 24.9228,
3.4812

 45.0558, 27.9359,
6.1497

 47.7071, 32.0794,
10.6070

 51.2551, 37.4532,
17.0988

 55.7737, 44.1460,
25.8322

61.3288, 52.2380,
36.9886

67.9804, 61.8030,
50.7306

75.7841, 72.9096,
67.2069

84.7913, 85.6221,
86.5546

Harmonies

Analogous

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



50.4815, 22.9159, 14.0856



42.0680, 22.9159, 2.2060



29.1154, 22.9159, 0.0000

Triad

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



42.0680, 22.9159, 2.2060



7.0080, 22.9159, 10.3611



26.6386, 22.9159, 147.5784

Complementary

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



42.0680, 22.9159, 2.2060



41.8392, 54.7985, 102.9791

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.



15.7948, 22.9159, 142.3660



42.0680, 22.9159, 2.2060



6.7469, 22.9159, 40.3256

Square

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



42.0680, 22.9159, 2.2060



10.2646, 22.9159, 1.4419



9.3607, 22.9159, 93.7301



39.7265, 22.9159, 104.7870

Rectangle

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



42.0680, 22.9159, 2.2060



20.9932, 22.9159, 0.0000



9.3607, 22.9159, 93.7301



22.5880, 22.9159, 151.9919

Sweetspot

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



42.0685, 22.9173, 2.2063



67.9801, 61.8023, 50.7293



53.7316, 26.2567, 67.7112



13.9209, 12.3256, 9.5484



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.



42.0685, 22.9173, 2.2063



42.0687, 22.9173, 2.2062



54.8306, 48.4417, 6.4604



18.2511, 18.4705, 18.7475



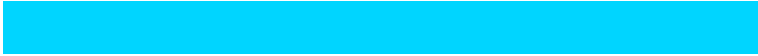
22.0523, 12.1159, 1.1763



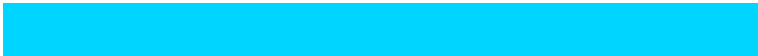
2.2122, 1.3098, 0.1362

Inverse Universe

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



41.8392, 54.7985, 102.9791



41.8393, 54.7986, 102.9798



21.6433, 14.4067, 96.2471



18.2851, 19.9418, 23.1354



21.9565, 28.8225, 53.8407



2.2026, 2.9359, 5.2639

Previews

White Background



This preview shows how the XYZ color 42.0680, 22.9159, 2.2060 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 42.0680, 22.9159, 2.2060 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 42.0680, 22.9159, 2.2060

Background



This preview shows how black text looks on a background with the XYZ color 42.0680, 22.9159, 2.2060.



This preview shows how white text looks on a background with the XYZ color 42.0680, 22.9159,

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

42.0680, 22.9159, 2.2060

Protanopia

20.7113, 22.8974, 4.6244

Deuteranopia

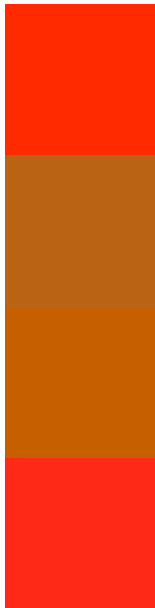
23.0595, 22.7742, 3.1805



Tritanopia

42.3486, 22.9175, 4.0252

Trichromacy



Original Color

42.0680, 22.9159, 2.2060

Protanomaly

25.0816, 19.5390, 3.1113

Deuteranomaly

27.3809, 20.1902, 2.4540

Tritanomaly

42.1978, 22.9118, 3.0625

Monochromacy



Original Color

42.0680, 22.9159, 2.2060

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

17.6987, 13.2756, 6.4801

CSS Examples

Text

The CSS property to change the color of the text to XYZ 42.0680, 22.9159, 2.2060 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(255, 42, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 42, 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(255, 42, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 42, 0) }
```

Border

The CSS property to change the border of an element to XYZ 42.0680, 22.9159, 2.2060 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(255, 42, 0) }
```


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

```
.border{ border-color:rgb(255, 42, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 42, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 42, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 42, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 42, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 42.0680, 22.9159, 2.2060 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 42, 0) }
```

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

```
.background{ background-color: rgb(255, 42,  
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