

# Converting Colors

XYZ(42.0156, 22.7216, 2.4661)

Have a look what the booklet for  
XYZ(42.0156, 22.7216, 2.4661)  
contains.

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# Color

**XYZ(42.0203, 22.7330,  
2.4603)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF270A
RGB	255, 39, 10
RGB Percent	100%, 15%, 4%
CMY	0.0000, 0.8470, 0.9608
CMYK	0.00, 0.85, 0.96, 0.00
HSL	7°, 100%, 52%
HSV	7°, 96%, 100%
XYZ	42.0203, 22.7330, 2.4603
YIQ	100.2780, 138.0450, 36.7730

# Conversions

## Conversions Part 2

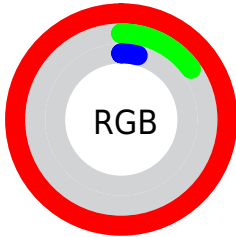
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 43, 10
Decimal	16721674
CIE Lab	54.80, 75.74, 65.52
CIE LCh	55, 100.150, 40.861
Yxy	22.7330, 0.6252, 0.3382
Android (android.graphics.Color)	4294911754 (0xFFFF270A)
YUV	100.2780, -44.5071, 135.6912
Hunter-Lab	47.6791, 73.8761, 30.3160

# Details

The XYZ color **42.0203, 22.7330, 2.4603** 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 **45.3643, 61.6629, 104.1181**, and the grayscale version is **12.2728, 12.9120, 14.0612**.

A 20% lighter version of the original color is **47.6920, 32.5906, 8.9312**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.7092, 22.1990, 2.0865**, and if you desaturate by 10%, it is **43.2463, 24.7757, 4.1322**.

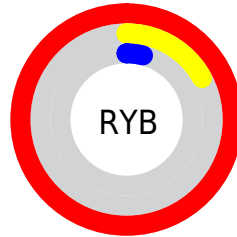
# Distribution



Red (100%)

Green (15%)

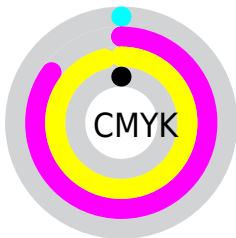
Blue (4%)



Red (100%)

Yellow (17%)

Blue (4%)

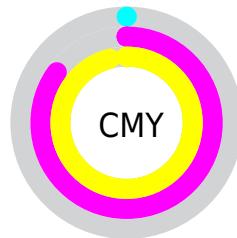


Cyan (0%)

Magenta (85%)

Yellow (96%)

Black (0%)



Cyan (0%)

Magenta (85%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0203, 22.7330, 2.4603 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 42.0203, 22.7330, 2.4603 by changing the saturation by 10% instead.




 42.0203, 22.7330,  
2.4603


 42.0203, 22.7330,  
2.4603


345.5573,  
266.3507, 129.1584

 29.3084, 14.3965,  
0.8190


 77.4953, 47.9545,  
10.2648


 19.4597, 8.3969,  
0.0000


 100.9891, 65.6084,  
17.2723

 12.1089, 4.3500,  
0.0000


 128.8076, 87.1367,  
26.9080

 6.8906, 1.8712,  
0.0000

 161.3161,  
112.9240, 39.5904

 3.4395, 0.5310,  
0.0000

 198.8799,  
143.3547, 55.7381


 1.3902, 0.0000,  
0.0000

 241.8645,


 0.2492, 0.0000,


178.8131, 75.7697


0.0000


 290.6352,  
219.6836, 100.1036


 0.0000, 0.0000,  
0.0000


 42.0203, 22.7330,  
2.4603


 42.0203, 22.7330,  
2.4603

 41.7092, 22.1990,  
2.0865

 43.2463, 24.7757,  
4.1322

 45.2510, 27.9348,  
7.4219

 48.1414, 32.3434,  
12.6157

 52.0068, 38.1147,  
19.9450

 56.9253, 45.3490,  
29.6083

62.9670, 54.1372,  
41.7810

70.1960, 64.5628,  
56.6219

78.6713, 76.7031,  
74.2767

88.4483, 90.6309,  
94.8805

# Harmonies

## Analogous

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



49.9571, 22.7330, 14.9557



42.0203, 22.7330, 2.4603



29.3593, 22.7330, 0.0000

# Triad

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



42.0203, 22.7330, 2.4603



7.0966, 22.7330, 9.6686



25.8685, 22.7330, 145.7511

# Complementary

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



42.0203, 22.7330, 2.4603



45.3643, 61.6629, 104.1181

# 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.



15.3558, 22.7330, 138.4536



42.0203, 22.7330, 2.4603



6.7249, 22.7330, 38.0987

# Square

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



42.0203, 22.7330, 2.4603



10.4637, 22.7330, 1.3526



9.1809, 22.7330, 89.8357



38.7270, 22.7330, 105.3382



# Rectangle

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



42.0203, 22.7330, 2.4603



21.2890, 22.7330, 0.0000



9.1809, 22.7330, 89.8357



21.9282, 22.7330, 149.3161

# Sweetspot

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



42.0208, 22.7344, 2.4606



67.9581, 61.3433, 52.0016



55.1328, 26.9907, 74.5549



13.8866, 12.1792, 9.7772



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.



42.0208, 22.7344, 2.4606



41.7096, 22.1992, 2.0865



54.0538, 46.8004, 6.4716



18.1827, 18.3335, 18.7247



21.8484, 11.7081, 1.1083



2.1801, 1.2456, 0.1255



# Inverse Universe

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



45.3643, 61.6629, 104.1181



44.9185, 60.9569, 104.0062



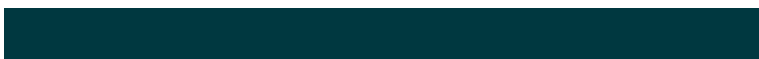
23.1169, 17.1683, 96.7023



18.3604, 20.0923, 23.1605



23.5438, 31.9971, 54.3698



2.3421, 3.2149, 5.3104



# Previews

## White Background



This preview shows how the XYZ color 42.0203, 22.7330, 2.4603 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



## 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 42.0203, 22.7330, 2.4603**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0203, 22.7330, 2.4603.



This preview shows how white text looks on a background with the XYZ color 42.0203, 22.7330,



# 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

42.0203, 22.7330, 2.4603

### Protanopia

20.7527, 22.9139, 4.8424

### Deuteranopia

23.0595, 22.7742, 3.1805



## Tritanopia

42.2218, 22.7617, 3.6815

# Trichromacy



## Original Color

42.0203, 22.7330, 2.4603

## Protanomaly

25.0367, 19.3703, 3.3390

## Deuteranomaly

27.3133, 20.0199, 2.5395

## Tritanomaly

42.1086, 22.7164, 3.0850

# Monochromacy



## Original Color

42.0203, 22.7330, 2.4603

## Achromatopsia

12.1130, 12.7438, 13.8780

## Achromatomaly

17.4478, 12.9219, 6.8848

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0203, 22.7330, 2.4603 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, 39, 10)` looks like.

```
.text, #text, p{  
    color:rgb(255, 39, 10)  
}
```

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, 39, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 39, 10) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0203, 22.7330, 2.4603 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, 39, 10) }
```



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

```
.border{ border-color:rgb(255, 39, 10) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 39, 10)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 39, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 39, 10);  
box-shadow:4px 4px 4px 4px rgb(255, 39,  
10) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0203, 22.7330, 2.4603 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 39, 10) }
```

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

```
.background{ background-color: rgb(255, 39,  
10) }
```

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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