

Converting Colors

XYZ(49.1776, 37.1358, 4.5760)

Have a look what the booklet for
XYZ(49.1776, 37.1358, 4.5760)
contains.

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Color

**XYZ(49.2226, 37.2253,
4.5909)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8200
RGB	255, 130, 0
RGB Percent	100%, 51%, 0%
CMY	0.0000, 0.4902, 1.0000
CMYK	0.00, 0.49, 1.00, 0.00
HSL	31°, 100%, 50%
HSV	31°, 100%, 100%
XYZ	49.2226, 37.2253, 4.5909
YIQ	152.5550, 116.2300, -13.9300

Conversions

Conversions Part 2

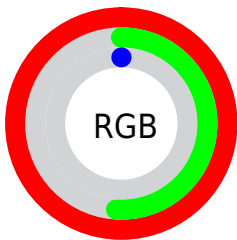
Format	Color
R_{YB}	245, 255, 0
Decimal	16744960
CIE Lab	67.45, 41.84, 74.26
CIE LCh	67, 85.239, 60.600
Yxy	37.2253, 0.5407, 0.4089
Android (android.graphics.Color)	4294935040 (0xFFFF8200)
YUV	152.5550, -75.2096, 89.8443
Hunter-Lab	61.0125, 37.2351, 38.2475

Details

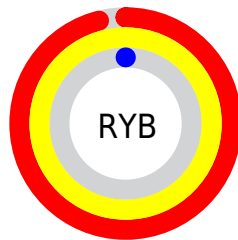
The XYZ color **49.2226, 37.2253, 4.5909** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **25.3837, 21.8874, 97.4936**, and the grayscale version is **30.3675, 31.9490, 34.7924**.

A 20% lighter version of the original color is **59.5831, 56.0220, 13.9763**, and **24.2102, 16.5251, 1.9137** is the 20% darker color. If you saturate the color by 10%, you get **49.2227, 37.2259, 4.5910**, and if you desaturate by 10%, it is **51.1694, 40.8297, 6.1328**.

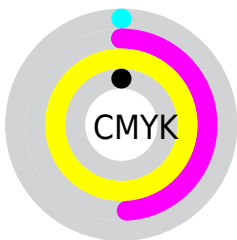
Distribution



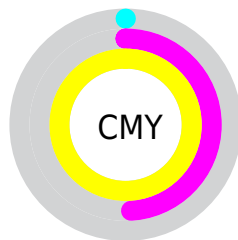
- Red (100%)
- Green (51%)
- Blue (0%)



- Red (96%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (49%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (49%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.2226, 37.2253, 4.5909 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 49.2226, 37.2253, 4.5909 by changing the saturation by 10% instead.


 49.2226, 37.2253,
4.5909

 49.2226, 37.2253,
4.5909

374.1204,
334.2849, 154.5828


 35.0114, 25.3820,
1.9548


 88.2207, 70.9192,
15.3511

 23.8382, 16.3619,
0.5273


 113.7383, 93.5385,
24.3123


 15.3377, 9.7806,
0.0000


 143.7553,
120.5186, 36.2190

 9.1446, 5.2537,
0.0000

 178.6373,
152.2439, 51.4896

 4.8935, 2.3969,
0.0000

 218.7494,
189.0988, 70.5427


 2.2190, 0.8243,
0.0000

 264.4570,


 0.7527, 0.0000,


231.4677, 93.7970


0.0000


 316.1256,
279.7349, 121.6708


 0.0000, 0.0000,
0.0000

 49.2226, 37.2253,
4.5909


 49.2226, 37.2253,
4.5909


 49.2227, 37.2259,
4.5910

 51.1694, 40.8297,
6.1328

 53.5600, 44.9441,
8.9853

 56.4737, 49.6123,
13.5305

 59.9610, 54.8645,
20.0026

 64.0647, 60.7274,
28.5984

68.8229, 67.2255,
39.4897

74.2701, 74.3813,
52.8309

80.4380, 82.2163,
68.7626

87.3562, 90.7504,
87.4147

Harmonies

Analogous

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



61.7504, 37.2253, 13.8082



49.2226, 37.2253, 4.5909



35.1189, 37.2253, 2.7441

Triad

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



49.2226, 37.2253, 4.5909



15.7180, 37.2253, 41.2907



49.7930, 37.2253, 139.5392

Complementary

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



49.2226, 37.2253, 4.5909



25.3837, 21.8874, 97.4936

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.



35.6454, 37.2253, 163.6748



49.2226, 37.2253, 4.5909



17.8460, 37.2253, 89.3752

Square

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



49.2226, 37.2253, 4.5909



17.6797, 37.2253, 14.4550



24.4137, 37.2253, 141.2652



62.1328, 37.2253, 87.1811

Rectangle

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



49.2226, 37.2253, 4.5909



27.2486, 37.2253, 3.5818



24.4137, 37.2253, 141.2652



44.9903, 37.2253, 152.2793

Sweetspot

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



49.2234, 37.2273, 4.5915



74.2684, 74.3790, 52.8254



45.1035, 22.8055, 22.2762



15.3865, 15.2569, 10.0370



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.



49.2234, 37.2273, 4.5915



49.2232, 37.2263, 4.5911



76.9993, 92.7791, 13.8502



18.7750, 19.5182, 18.9222



25.8701, 19.7514, 2.4489



2.6282, 2.1418, 0.2749

Inverse Universe

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



25.3837, 21.8874, 97.4936



25.3831, 21.8862, 97.4944



18.0501, 7.2202, 95.0491



17.7382, 18.8480, 22.9531



13.4118, 11.7331, 50.9924



1.4148, 1.3604, 5.0013

Previews

White Background



This preview shows how the XYZ color 49.2226, 37.2253, 4.5909 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 49.2226, 37.2253, 4.5909 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 49.2226, 37.2253, 4.5909

Background



This preview shows how black text looks on a background with the XYZ color 49.2226, 37.2253, 4.5909.



This preview shows how white text looks on a background with the XYZ color 49.2226, 37.2253,

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

49.2226, 37.2253, 4.5909

Protanopia

33.8497, 37.4073, 6.1953

Deuteranopia

37.9009, 37.1868, 5.1802



Tritanopia

52.5444, 37.3140, 25.9057

Trichromacy



Original Color

49.2226, 37.2253, 4.5909

Protanomaly

38.1715, 36.3371, 5.4174

Deuteranomaly

41.4851, 36.8750, 4.9311

Tritanomaly

50.2622, 36.8062, 12.6388

Monochromacy



Original Color

49.2226, 37.2253, 4.5909

Achromatopsia

30.2779, 31.8547, 34.6897

Achromatomaly

33.5183, 32.0610, 15.7311

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.2226, 37.2253, 4.5909 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, 130, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 130, 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, 130, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 130, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.2226, 37.2253, 4.5909 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, 130, 0) }
```


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

```
.border{ border-color:rgb(255, 130, 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, 130, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 130, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 130, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 130,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.2226, 37.2253, 4.5909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 130, 0) }
```

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

```
.background{ background-color: rgb(255,  
130, 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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