

# Converting Colors

XYZ(61.3944, 45.6112, 11.6068)

Have a look what the booklet for  
XYZ(61.3944, 45.6112, 11.6068)  
contains.

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# Color

**XYZ(51.9022, 40.7647,  
11.0941)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8D47
RGB	255, 141, 71
RGB Percent	100%, 55%, 28%
CMY	0.0000, 0.4470, 0.7216
CMYK	0.00, 0.45, 0.72, 0.00
HSL	23°, 100%, 64%
HSV	23°, 72%, 100%
XYZ	51.9022, 40.7647, 11.0941
YIQ	167.1060, 90.4140, 2.3980

# Conversions

## Conversions Part 2

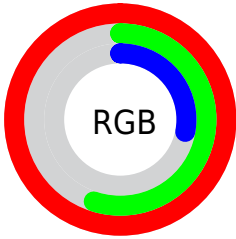
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 184, 71
Decimal	16747847
CIE <sub>Lab</sub>	70.01, 37.95, 54.88
CIE <sub>LCh</sub>	70, 66.722, 55.339
Yxy	40.7647, 0.5002, 0.3929
Android (android.graphics.Color)	4294937927 (0xFFFF8D47)
YUV	167.1060, -47.3803, 77.0830
Hunter-Lab	63.8472, 33.3722, 34.3908

# Details

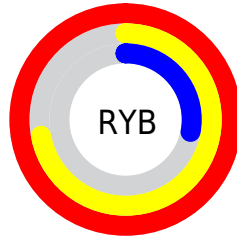
The XYZ color **51.9022, 40.7647, 11.0941** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **37.9962, 43.2549, 100.9535**, and the grayscale version is **36.9763, 38.9020, 42.3643**.

A 20% lighter version of the original color is **64.5551, 62.1699, 27.3365**, and **25.4198, 18.3949, 2.7831** is the 20% darker color. If you saturate the color by 10%, you get **49.0833, 36.1736, 6.9289**, and if you desaturate by 10%, it is **55.3984, 46.1619, 17.1783**.

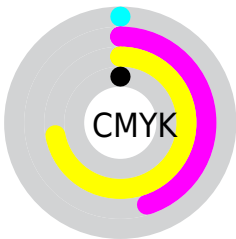
# Distribution



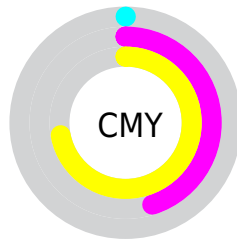
- Red (100%)
- Green (55%)
- Blue (28%)



- Red (100%)
- Yellow (72%)
- Blue (28%)



- Cyan (0%)
- Magenta (45%)
- Yellow (72%)
- Black (0%)




- Cyan (0%)
- Magenta (45%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.9022, 40.7647, 11.0941 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 51.9022, 40.7647, 11.0941 by changing the saturation by 10% instead.





 51.9022, 40.7647,  
11.0941


 51.9022, 40.7647,  
11.0941


384.3891,  
349.3362, 209.0726


 37.1511, 28.1353,  
6.0152

 92.1621, 76.3266,  
28.4733

 25.4987, 18.4277,  
2.7854


 118.4015,  
100.0278, 41.6108

 16.5797, 11.2575,  
0.9861


 149.2012,  
128.1884, 58.2714

 10.0287, 6.2403,  
0.0000

 184.9263,  
161.1928, 78.8739

 5.4804, 2.9917,  
0.0000

 225.9423,  
199.4254, 103.8367

 2.5694, 1.1274,  
0.0000

272.6145,

 0.9304, 0.0012,

243.2706, 133.5784

0.0000

325.3083,  
293.1127, 168.5175

■ 0.0000, 0.0000,  
0.0000

■ 51.9022, 40.7647,  
11.0941

■ 51.9022, 40.7647,  
11.0941

■ 49.0833, 36.1736,  
6.9289

■ 55.3984, 46.1619,  
17.1783

■ 46.8787, 32.3357,  
4.4326


■ 59.6204, 52.4004,  
25.3850


■ 45.5162, 29.8129,  
3.3555

■ 64.6148, 59.5205,  
35.8938

■ 70.4230, 67.5577,  
48.8644

■ 77.0833, 76.5453,  
64.4421

 84.6311, 86.5149,  
82.7608

 93.0998, 97.4964,  
103.9452

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



60.8946, 40.7647, 23.3655



51.9022, 40.7647, 11.0941



40.4705, 40.7647, 7.4475

# Triad

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



51.9022, 40.7647, 11.0941



21.4118, 40.7647, 39.6933



48.4059, 40.7647, 123.5371

# Complementary

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



51.9022, 40.7647, 11.0941



37.9962, 43.2549, 100.9535

# 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.



37.0705, 40.7647, 134.8807



51.9022, 40.7647, 11.0941



22.7474, 40.7647, 75.2809

# Square

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



51.9022, 40.7647, 11.0941



23.9602, 40.7647, 18.2880



28.0245, 40.7647, 114.1526



58.6255, 40.7647, 87.9212



# Rectangle

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



51.9022, 40.7647, 11.0941



33.4710, 40.7647, 8.0522



28.0245, 40.7647, 114.1526



44.5471, 40.7647, 130.8594

# Sweetspot

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



51.9031, 40.7669, 11.0948



77.1946, 76.6937, 64.7067



52.5200, 29.3774, 50.2161



16.1170, 15.8726, 12.8865



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.



51.9031, 40.7669, 11.0948



47.9431, 34.2235, 5.5288



70.8038, 78.5683, 17.3951



18.5758, 19.1197, 18.8558



23.9159, 15.8431, 1.7975



2.4300, 1.7455, 0.2088



# Inverse Universe

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



37.9962, 43.2549, 100.9535



33.1681, 36.5179, 99.9083



24.7892, 16.8408, 96.5511



17.9403, 19.2523, 23.0205



15.9672, 16.8440, 51.8442



1.6602, 1.8511, 5.0831



# Previews

## White Background



This preview shows how the XYZ color 51.9022, 40.7647, 11.0941 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 51.9022, 40.7647, 11.0941 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 51.9022, 40.7647, 11.0941**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.9022, 40.7647, 11.0941.



This preview shows how white text looks on a background with the XYZ color 51.9022, 40.7647,



# 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

51.9022, 40.7647, 11.0941

### Protanopia

37.4357, 41.0314, 13.5362

### Deuteranopia

41.7829, 40.8722, 10.6880



## Tritanopia

55.0782, 40.8819, 31.3736

# Trichromacy



## Original Color

51.9022, 40.7647, 11.0941

## Protanomaly

41.8160, 40.3217, 12.6001

## Deuteranomaly

45.0476, 40.5060, 10.7544

## Tritanomaly

53.5394, 40.7213, 21.8678

# Monochromacy



## Original Color

51.9022, 40.7647, 11.0941

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

39.9449, 38.2618, 27.1097

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.9022, 40.7647, 11.0941 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, 141, 71)` looks like.

```
.text, #text, p{  
    color:rgb(255, 141, 71)  
}
```

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, 141, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 141, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 51.9022, 40.7647, 11.0941 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, 141, 71) }
```



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

```
.border{ border-color:rgb(255, 141, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 141, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 141, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 141, 71);  
box-shadow:4px 4px 4px 4px rgb(255, 141,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.9022, 40.7647, 11.0941 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 141, 71) }
```

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

```
.background{ background-color: rgb(255,  
141, 71) }
```

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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