

# Converting Colors

XYZ(49.1712, 36.1662, 7.5211)

Have a look what the booklet for  
XYZ(49.1712, 36.1662, 7.5211)  
contains.

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# Color

**XYZ(49.1712, 36.1662,  
7.5211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7D33
RGB	255, 125, 51
RGB Percent	100%, 49%, 20%
CMY	0.0000, 0.5098, 0.8000
CMYK	0.00, 0.51, 0.80, 0.00
HSL	22°, 100%, 60%
HSV	22°, 80%, 100%
XYZ	49.1712, 36.1662, 7.5211
YIQ	155.4340, 101.2340, 4.5460

# Conversions

## Conversions Part 2

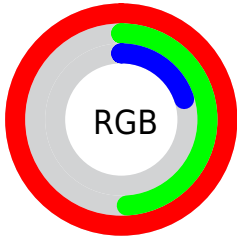
Format	Color
<a href="#">RYB</a>	<a href="#">255, 167, 51</a>
Decimal	<a href="#">16743731</a>
CIELab	<a href="#">66.65, 45.15, 60.43</a>
CIElCh	<a href="#">67, 75.436, 53.237</a>
Yxy	<a href="#">36.1662, 0.5295, 0.3895</a>
Android (android.graphics.Color)	<a href="#">4294933811 (0xFFFF7D33)</a>
YUV	<a href="#">155.4340, -51.4860, 87.3194</a>
Hunter-Lab	<a href="#">60.1383, 40.7057, 34.6818</a>

# Details

The XYZ color **49.1712, 36.1662, 7.5211** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **35.9378, 40.9689, 100.6209**, and the grayscale version is **31.5392, 33.1817, 36.1349**.

A 20% lighter version of the original color is **60.0094, 54.8818, 20.2624**, and **23.8032, 15.7111, 1.7780** is the 20% darker color. If you saturate the color by 10%, you get **46.8637, 32.2182, 4.6971**, and if you desaturate by 10%, it is **52.1247, 40.9144, 12.0793**.

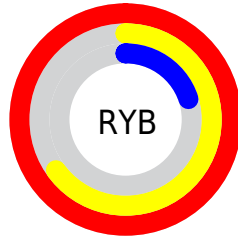
# Distribution



Red (100%)

Green (49%)

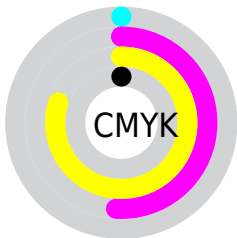
Blue (20%)



Red (100%)

Yellow (65%)

Blue (20%)

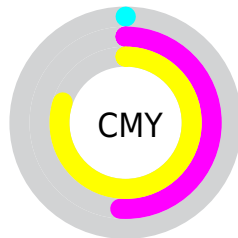


Cyan (0%)

Magenta (51%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (51%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.1712, 36.1662, 7.5211 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 49.1712, 36.1662, 7.5211 by changing the saturation by 10% instead.




 49.1712, 36.1662,  
7.5211


 49.1712, 36.1662,  
7.5211


373.9217,  
329.6864, 181.7180

 34.9704, 24.5626,  
3.7067


 88.1449, 69.2885,  
21.5446


 23.8065, 15.7515,  
1.4659


 113.6484, 91.5760,  
32.5907


 15.3141, 9.3485,  
0.1923


 143.6503,  
118.1936, 46.8846

 9.1279, 4.9692,  
0.0000

 178.5159,  
149.5256, 64.8447

 4.8825, 2.2292,  
0.0000

 218.6104,  
185.9565, 86.8895

 2.2125, 0.7358,  
0.0000

 264.2993,

 0.7493, 0.0000,

227.8707, 113.4377

0.0000

315.9480,  
275.6525, 144.9076

■ 0.0000, 0.0000,  
0.0000

■ 49.1712, 36.1662,  
7.5211

■ 49.1712, 36.1662,  
7.5211

■ 46.8637, 32.2182,  
4.6971

■ 52.1247, 40.9144,  
12.0793

■ 45.1113, 29.0028,  
3.2205

■ 55.7810, 46.5048,  
18.6072

■ 45.1111, 29.0026,  
3.2204

■ 60.1922, 52.9830,  
27.3049

■ 65.4041, 60.3887,  
38.3468

■ 71.4586, 68.7592,  
51.8897

78.3941, 78.1296,  
68.0766

86.2467, 88.5328,  
87.0394

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



58.5987, 36.1662, 19.4990



49.1712, 36.1662, 7.5211



37.0112, 36.1662, 4.2013

# Triad

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



49.1712, 36.1662, 7.5211



16.9298, 36.1662, 32.4636



43.7305, 36.1662, 129.3349

# Complementary

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



49.1712, 36.1662, 7.5211



35.9378, 40.9689, 100.6209

# 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.



31.8669, 36.1662, 139.8562



49.1712, 36.1662, 7.5211



17.9600, 36.1662, 69.5662

# Square

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



49.1712, 36.1662, 7.5211



19.6804, 36.1662, 12.5550



22.8915, 36.1662, 113.7349



55.0050, 36.1662, 89.9225



# Rectangle

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



49.1712, 36.1662, 7.5211



29.6130, 36.1662, 4.4833



22.8915, 36.1662, 113.7349



39.6217, 36.1662, 137.0205

# Sweetspot

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



49.1720, 36.1682, 7.5217



75.5115, 74.2589, 61.2748



51.0336, 27.0717, 47.6637



15.6391, 15.1860, 11.8974



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.



49.1720, 36.1682, 7.5217



45.7585, 30.2076, 3.7118



68.6006, 75.0254, 13.9979



18.5488, 19.0658, 18.8468



23.7005, 15.4121, 1.7257



2.4071, 1.6995, 0.2012



# Inverse Universe

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



35.9378, 40.9689, 100.6209



31.8488, 34.6280, 99.6130



22.4026, 13.8985, 96.1092



17.9682, 19.3081, 23.0298



16.3749, 17.6594, 51.9801



1.6983, 1.9272, 5.0958



# Previews

## White Background



This preview shows how the XYZ color 49.1712, 36.1662, 7.5211 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 49.1712, 36.1662, 7.5211 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 49.1712, 36.1662, 7.5211**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.1712, 36.1662, 7.5211.



This preview shows how white text looks on a background with the XYZ color 49.1712, 36.1662,



# 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

49.1712, 36.1662, 7.5211

### Protanopia

32.9956, 36.3551, 9.6931

### Deuteranopia

36.8577, 36.1087, 7.1249



## Tritanopia

51.7872, 36.2252, 24.3414

# Trichromacy



## Original Color

49.1712, 36.1662, 7.5211

## Protanomaly

37.4984, 35.2002, 8.6888

## Deuteranomaly

40.7275, 35.5224, 7.1925

## Tritanomaly

50.4517, 36.0799, 16.1094

# Monochromacy



## Original Color

49.1712, 36.1662, 7.5211

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

34.6700, 32.3072, 21.2382

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.1712, 36.1662, 7.5211 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, 125, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 125, 51)  
}
```

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, 125, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 125, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 49.1712, 36.1662, 7.5211 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, 125, 51) }
```



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

```
.border{ border-color:rgb(255, 125, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 125, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 125, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 125, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 125,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.1712, 36.1662, 7.5211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 125, 51) }
```

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

```
.background{ background-color: rgb(255,  
125, 51) }
```

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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