

# Converting Colors

XYZ(55.2013, 49.1826, 6.5838)

Have a look what the booklet for  
XYZ(55.2013, 49.1826, 6.5838)  
contains.

<b>XYZ(55.2426, 49.2653, 6.5975)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# **Color**

**XYZ(55.2426, 49.2653,  
6.5975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA800
RGB	255, 168, 0
RGB Percent	100%, 66%, 0%
CMY	0.0000, 0.3411, 0.9999
CMYK	0.00, 0.34, 1.00, 0.00
HSL	40°, 100%, 50%
HSV	40°, 100%, 100%
XYZ	55.2426, 49.2653, 6.5975
YIQ	174.8610, 105.7800, -33.8040

# Conversions

## Conversions Part 2

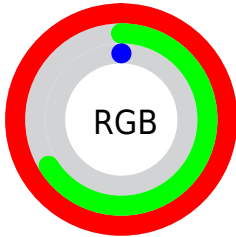
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 255, 0
Decimal	16754688
CIE <sub>Lab</sub>	75.62, 22.37, 79.40
CIE <sub>LCh</sub>	76, 82.496, 74.265
Yxy	49.2653, 0.4972, 0.4434
Android (android.graphics.Color)	4294944768 (0xFFFFA800)
YUV	174.8610, -86.2065, 70.2819
Hunter-Lab	70.1892, 17.6576, 43.5595

# Details

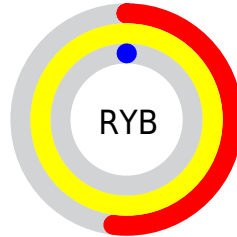
The XYZ color **55.2426, 49.2653, 6.5975** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **21.4587, 14.0374, 96.1853**, and the grayscale version is **41.0715, 43.2104, 47.0561**.

A 20% lighter version of the original color is **69.0756, 74.6145, 18.3508**, and **27.9836, 23.6972, 3.0991** is the 20% darker color. If you saturate the color by 10%, you get **55.2427, 49.2659, 6.5977**, and if you desaturate by 10%, it is **57.0850, 52.6609, 8.1049**.

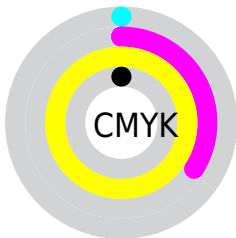
# Distribution



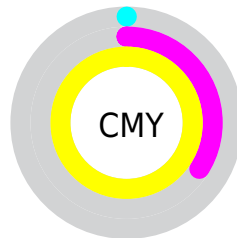
- Red (100%)
- Green (66%)
- Blue (0%)



- Red (52%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (34%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (34%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.2426, 49.2653, 6.5975 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 55.2426, 49.2653, 6.5975 by changing the saturation by 10% instead.





 55.2426, 49.2653,  
6.5975


 55.2426, 49.2653,  
6.5975


396.9524,  
383.7858, 173.7781


 39.8306, 34.8300,  
3.1371


 97.0426, 89.0854,  
19.6577

 27.5901, 23.5319,  
1.1650


 124.1612,  
115.2389, 30.0945


 18.1558, 14.9868,  
0.0000


 155.9128,  
146.0673, 43.6939

 11.1623, 8.8101,  
0.0000

 192.6627,  
181.9549, 60.8744

 6.2442, 4.6175,  
0.0000

 234.7763,  
223.2862, 82.0545

 3.0362, 2.0247,  
0.0000

 282.6188,

 1.1729, 0.6217,

270.4455, 107.6528

0.0000

336.5557,  
323.8172, 138.0878

■ 0.0848, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.2426, 49.2653,  
6.5975

■ 55.2426, 49.2653,  
6.5975

■ 55.2427, 49.2659,  
6.5977

■ 57.0850, 52.6609,  
8.1049

■ 59.2716, 56.3673,  
10.8897

■ 61.8776, 60.4197,  
15.3325

■ 64.9487, 64.8397,  
21.6663

68.5241, 69.6458,  
30.0862

72.6377, 74.8544,  
40.7631

77.3202, 80.4809,  
53.8497

82.5999, 86.5392,  
69.4858

88.5027, 93.0425,  
87.7999

# Harmonies

## Analogous

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



71.1409, 49.2653, 13.7653



55.2426, 49.2653, 6.5975



39.9598, 49.2653, 6.4605

# Triad

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



55.2426, 49.2653, 6.5975



23.7538, 49.2653, 77.1309



70.4400, 49.2653, 139.1425

# Complementary

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



55.2426, 49.2653, 6.5975



21.4587, 14.0374, 96.1853

# 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.



54.4351, 49.2653, 183.2787



55.2426, 49.2653, 6.5975



28.7972, 49.2653, 136.2857

# Square

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



55.2426, 49.2653, 6.5975



23.8778, 49.2653, 33.9257



39.3094, 49.2653, 182.0164



81.1319, 49.2653, 79.8131



# Rectangle

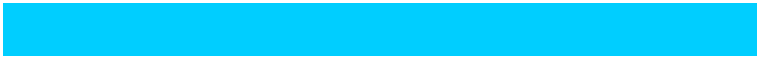
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



55.2426, 49.2653, 6.5975



32.1698, 49.2653, 9.8498



39.3094, 49.2653, 182.0164



65.3674, 49.2653, 157.3915

# Sweetspot

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



55.2437, 49.2678, 6.5984



77.3181, 80.4783, 53.8419



43.0538, 21.9857, 11.4829



16.1115, 16.7068, 10.2786



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.



55.2437, 49.2678, 6.5984



55.2432, 49.2664, 6.5977



64.3011, 86.2330, 13.2560



19.0088, 19.9858, 19.0001



29.0099, 26.0311, 3.4955



2.9261, 2.7376, 0.3742



# Inverse Universe

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



21.4587, 14.0374, 96.1853



21.4579, 14.0359, 96.1860



18.8590, 7.6373, 95.0870



17.5096, 18.3907, 22.8769



11.3361, 7.5817, 50.3005



1.2005, 0.9316, 4.9298



# Previews

## White Background



This preview shows how the XYZ color 55.2426, 49.2653, 6.5975 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 55.2426, 49.2653, 6.5975 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 55.2426, 49.2653, 6.5975**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.2426, 49.2653, 6.5975.



This preview shows how white text looks on a background with the XYZ color 55.2426, 49.2653,



# 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

55.2426, 49.2653, 6.5975

### Protanopia

44.7355, 49.4300, 7.7134

### Deuteranopia

50.3142, 49.2771, 6.8596



## Tritanopia

61.0665, 49.3039, 44.3283

# Trichromacy



## Original Color

55.2426, 49.2653, 6.5975

## Protanomaly

48.0602, 48.9976, 7.2410

## Deuteranomaly

52.0982, 49.3268, 6.7752

## Tritanomaly

57.0440, 48.5371, 20.5494

# Monochromacy



## Original Color

55.2426, 49.2653, 6.5975

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

42.5236, 43.4901, 21.1921

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.2426, 49.2653, 6.5975 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, 168, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 168, 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, 168, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 168, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 55.2426, 49.2653, 6.5975 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, 168, 0) }
```



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

```
.border{ border-color:rgb(255, 168, 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, 168, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 168, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 168, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 168,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.2426, 49.2653, 6.5975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 168, 0) }
```

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

```
.background{ background-color: rgb(255,  
168, 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