

# Converting Colors

XYZ(37.2386, 32.3275, 7.2124)

Have a look what the booklet for  
XYZ(37.2386, 32.3275, 7.2124)  
contains.

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# Color

**XYZ(37.2316, 32.4092,  
7.1990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D68931
RGB	214, 137, 49
RGB Percent	84%, 54%, 19%
CMY	0.1608, 0.4627, 0.8078
CMYK	0.00, 0.36, 0.77, 0.16
HSL	32°, 67%, 52%
HSV	32°, 77%, 84%
XYZ	37.2316, 32.4092, 7.1990
YIQ	149.9910, 74.1400, -11.0440

# Conversions

## Conversions Part 2

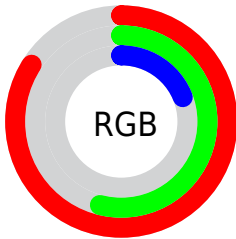
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	193, 214, 49
Decimal	14059825
CIE <sub>Lab</sub>	63.68, 22.40, 56.51
CIE <sub>LCh</sub>	64, 60.783, 68.379
Yxy	32.4092, 0.4845, 0.4218
Android (android.graphics.Color)	4292249905 (0xFFD68931)
YUV	149.9910, -49.7886, 56.1359
Hunter-Lab	56.9291, 17.1131, 32.3528

# Details

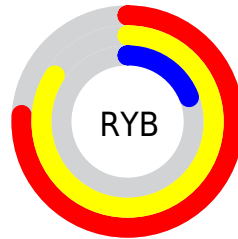
The XYZ color **37.2316, 32.4092, 7.1990** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **20.8646, 20.4287, 66.4614**, and the grayscale version is **29.1691, 30.6881, 33.4194**.

A 20% lighter version of the original color is **62.2198, 59.4612, 20.5097**, and **16.7346, 13.6864, 1.7597** is the 20% darker color. If you saturate the color by 10%, you get **35.5282, 29.5619, 4.9073**, and if you desaturate by 10%, it is **39.2821, 35.6083, 10.6639**.

# Distribution



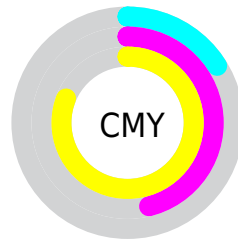
- Red (84%)
- Green (54%)
- Blue (19%)



- Red (76%)
- Yellow (84%)
- Blue (19%)



- Cyan (0%)
- Magenta (36%)
- Yellow (77%)
- Black (16%)




- Cyan (16%)
- Magenta (46%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2316, 32.4092, 7.1990 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 37.2316, 32.4092, 7.1990 by changing the saturation by 10% instead.





 37.2316, 32.4092,  
7.1990


 37.2316, 32.4092,  
7.1990


325.6503,  
312.9791, 179.0003


 25.5614, 21.6742,  
3.5065


 70.2404, 63.4520,  
20.8921

 16.6267, 13.6177,  
1.3587


 92.3096, 84.5287,  
31.7298


 10.0624, 7.8553,  
0.1092


 118.5759,  
109.8214, 45.7863

 5.5029, 4.0025,  
0.0000

 149.4045,  
139.7145, 63.4802

 2.5830, 1.6750,  
0.0000

 185.1610,  
174.5925, 85.2300

 0.9373, 0.4074,  
0.0000

 226.2105,

 0.0000, 0.0000,

214.8396, 111.4543

0.0000

272.9185,  
260.8403, 142.5716

■ 37.2316, 32.4092,  
7.1990

■ 37.2316, 32.4092,  
7.1990

■ 35.5282, 29.5619,  
4.9073

■ 39.2821, 35.6083,  
10.6639

■ 34.1306, 27.0402,  
3.5985

■ 41.7078, 39.1718,  
15.4427

■ 33.7645, 26.3622,  
3.3088

■ 44.5356, 43.1171,  
21.6578

■ 47.7889, 47.4587,  
29.4169

■ 51.4891, 52.2099,  
38.8173

■ 55.6559, 57.3835,  
49.9483

■ 60.3077, 62.9914,  
62.8926

■ 65.4620, 69.0451,  
77.7275

■ 71.1349, 75.5554,  
94.5259

# Harmonies

## Analogous

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



45.4859, 32.4092, 13.4643



37.2316, 32.4092, 7.1990



28.4816, 32.4092, 6.2731

# Triad

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



37.2316, 32.4092, 7.1990



17.2913, 32.4092, 42.5634



42.1148, 32.4092, 86.2139

# Complementary

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



37.2316, 32.4092, 7.1990



20.8646, 20.4287, 66.4614

# 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.



33.2493, 32.4092, 104.8707



37.2316, 32.4092, 7.1990



19.6795, 32.4092, 73.0890

# Square

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



37.2316, 32.4092, 7.1990



17.9640, 32.4092, 20.6904



25.1623, 32.4092, 99.1979



48.6469, 32.4092, 55.5129



# Rectangle

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



37.2316, 32.4092, 7.1990



23.6659, 32.4092, 8.0384



25.1623, 32.4092, 99.1979



39.2498, 32.4092, 94.6218

# Sweetspot

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



37.2323, 32.4109, 7.1996



78.8859, 80.5459, 63.8229



32.5958, 17.9993, 21.4953



16.4172, 16.6540, 12.4287



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.



37.2323, 32.4109, 7.1996



51.3724, 41.3520, 5.8400



50.7539, 61.7970, 12.1590



12.9662, 13.5066, 13.0844



20.5137, 16.1447, 2.0350



1.3198, 1.1388, 0.1503



# Inverse Universe

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



20.8646, 20.4287, 66.4614



26.0829, 22.9196, 97.6569



14.7844, 7.8501, 64.3539



12.2155, 12.9545, 15.7942



10.1849, 8.6316, 39.5824



0.6967, 0.6854, 2.4149



# Previews

## White Background



This preview shows how the XYZ color 37.2316, 32.4092, 7.1990 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 37.2316, 32.4092, 7.1990 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 37.2316, 32.4092, 7.1990**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.2316, 32.4092, 7.1990.



This preview shows how white text looks on a background with the XYZ color 37.2316, 32.4092,



# 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

37.2316, 32.4092, 7.1990

### Protanopia

29.6208, 32.5933, 8.2200

### Deuteranopia

33.1555, 32.5262, 7.0133



## Tritanopia

41.5200, 32.3334, 28.0974

# Trichromacy



## Original Color

37.2316, 32.4092, 7.1990

## Protanomaly

31.9488, 32.1191, 7.7645

## Deuteranomaly

34.4030, 32.2597, 6.9983

## Tritanomaly

39.3331, 32.0249, 17.7440

# Monochromacy



## Original Color

37.2316, 32.4092, 7.1990

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

30.3396, 30.3273, 19.8775

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2316, 32.4092, 7.1990 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(214, 137, 49)` looks like.

```
.text, #text, p{  
    color:rgb(214, 137, 49)  
}
```

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(214, 137, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 137, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2316, 32.4092, 7.1990 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(214, 137, 49) }
```



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

```
.border{ border-color:rgb(214, 137, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 137, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 137, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 137, 49);  
box-shadow:4px 4px 4px 4px rgb(214, 137,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.2316, 32.4092, 7.1990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 137, 49) }
```

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

```
.background{ background-color: rgb(214,  
137, 49) }
```

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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