

Converting Colors

XYZ(48.1993, 46.7009, 13.6813)

Have a look what the booklet for
XYZ(48.1993, 46.7009, 13.6813)
contains.

XYZ(48.1226, 46.5491, 13.6563)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(48.1226, 46.5491,
13.6563)**

Conversions

Conversions Part 1

Format	Color
Hex	E4AC4E
RGB	228, 172, 78
RGB Percent	89%, 67%, 31%
CMY	0.1059, 0.3255, 0.6941
CMYK	0.00, 0.25, 0.66, 0.11
HSL	38°, 74%, 60%
HSV	38°, 66%, 89%
XYZ	48.1226, 46.5491, 13.6563
YIQ	178.0280, 63.5500, -17.3620

Conversions

Conversions Part 2

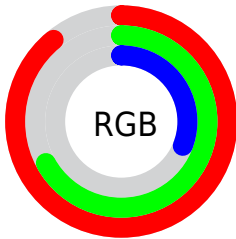
Format	Color
RYB	167, 228, 78
Decimal	14986318
CIELab	73.90, 11.01, 54.89
CIELCh	74, 55.982, 78.659
Yxy	46.5491, 0.4442, 0.4297
Android (android.graphics.Color)	4293176398 (0xFFE4AC4E)
YUV	178.0280, -49.3138, 43.8254
Hunter-Lab	68.2269, 6.5046, 35.8913

Details

The XYZ color **48.1226, 46.5491, 13.6563** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **25.6702, 24.2704, 76.7301**, and the grayscale version is **42.5621, 44.7786, 48.7639**.

A 20% lighter version of the original color is **72.8058, 77.8369, 32.6595**, and **23.2435, 21.9339, 3.8728** is the 20% darker color. If you saturate the color by 10%, you get **45.8745, 43.1422, 9.5494**, and if you desaturate by 10%, it is **50.7599, 50.2814, 19.2913**.

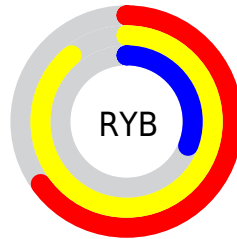
Distribution



Red (89%)

Green (67%)

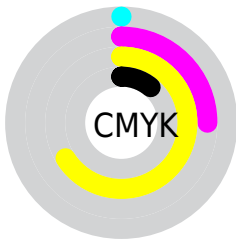
Blue (31%)



Red (65%)

Yellow (89%)

Blue (31%)

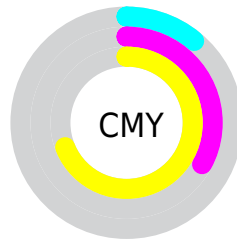


Cyan (0%)

Magenta (25%)

Yellow (66%)

Black (11%)



Cyan (11%)


Magenta (33%)


Yellow (69%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.1226, 46.5491, 13.6563 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 48.1226, 46.5491, 13.6563 by changing the saturation by 10% instead.


 48.1226, 46.5491,
13.6563


 48.1226, 46.5491,
13.6563


369.8524,
373.0118, 226.4356

 34.1356, 32.6793,
7.7460


 86.5955, 85.0402,
33.1862

 23.1612, 21.8809,
3.8474


 111.8122,
110.4303, 47.6429


 14.8339, 13.7694,
1.5420


 141.5028,
140.4293, 65.7855

 8.7885, 7.9605,
0.2489

 176.0327,
175.4216, 88.0325

 4.6595, 4.0697,
0.0000

 215.7672,
215.7917, 114.8025

 2.0816, 1.7126,
0.0000

261.0718,

 0.6792, 0.4318,

261.9238, 146.5140

0.0000

312.3117,
314.2024, 183.5855

■ 0.0000, 0.0000,
0.0000

■ 48.1226, 46.5491,
13.6563

■ 48.1226, 46.5491,
13.6563

■ 45.8745, 43.1422,
9.5494

■ 50.7599, 50.2814,
19.2913

■ 43.9796, 40.0377,
6.8055

■ 53.8115, 54.3465,
26.5911

■ 42.3993, 37.2188,
5.2250

■ 57.3034, 58.7598,
35.6802

■ 41.8004, 36.1052,
4.7659

■ 61.2587, 63.5332,
46.6704

■ 65.6985, 68.6779,
59.6642

■ 70.6423, 74.2045,
74.7567

■ 76.1087, 80.1230,
92.0370

■ 81.2329, 86.0903,
106.9434

■ 83.7989, 91.2223,
107.7987

Harmonies

Analogous

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



58.1568, 46.5491, 19.6230



48.1226, 46.5491, 13.6563



38.3880, 46.5491, 14.4271

Triad

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



48.1226, 46.5491, 13.6563



28.4493, 46.5491, 70.3617



60.2581, 46.5491, 96.3012

Complementary

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



48.1226, 46.5491, 13.6563



25.6702, 24.2704, 76.7301

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.



50.6661, 46.5491, 122.5493



48.1226, 46.5491, 13.6563



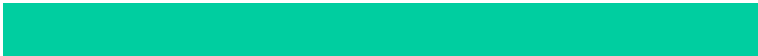
32.7476, 46.5491, 104.1054

Square

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



48.1226, 46.5491, 13.6563



27.9800, 46.5491, 40.6333



40.5787, 46.5491, 125.8461



65.8332, 46.5491, 62.2689

Rectangle

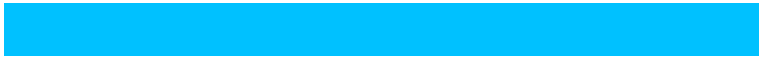
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.1226, 46.5491, 13.6563



33.3136, 46.5491, 18.7581



40.5787, 46.5491, 125.8461



57.3354, 46.5491, 106.7990

Sweetspot

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



48.1237, 46.5514, 13.6572



82.1236, 85.5886, 69.3186



39.1279, 23.7065, 25.6208



17.2343, 17.9203, 13.8354



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.



48.1237, 46.5514, 13.6572



58.1761, 54.0837, 10.8079



55.8394, 69.8117, 17.7402



15.1258, 15.8655, 15.1696



24.2545, 21.0831, 2.7911



1.8807, 1.7348, 0.2357

Inverse Universe

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



25.6702, 24.2704, 76.7301



27.3647, 23.6268, 97.7259



21.4998, 13.5105, 74.8730



14.0214, 14.7642, 18.2551



10.0716, 7.2053, 43.2431



0.8311, 0.7061, 3.2244

Previews

White Background



This preview shows how the XYZ color 48.1226, 46.5491, 13.6563 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 48.1226, 46.5491, 13.6563 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 48.1226, 46.5491, 13.6563

Background



This preview shows how black text looks on a background with the XYZ color 48.1226, 46.5491, 13.6563.



This preview shows how white text looks on a background with the XYZ color 48.1226, 46.5491,

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

48.1226, 46.5491, 13.6563

Protanopia

42.5703, 46.6065, 14.5368

Deuteranopia

47.6827, 46.6059, 13.6904



Tritanopia

54.8213, 46.5588, 46.1418

Trichromacy



Original Color

48.1226, 46.5491, 13.6563

Protanomaly

44.2323, 46.2689, 14.1889

Deuteranomaly

47.9973, 46.7681, 13.7051

Tritanomaly

51.5751, 46.2923, 30.6431

Monochromacy



Original Color

48.1226, 46.5491, 13.6563

Achromatopsia

42.3164, 44.5201, 48.4824

Achromatomaly

43.1728, 44.7394, 31.9513

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.1226, 46.5491, 13.6563 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(228, 172, 78)` looks like.

```
.text, #text, p{  
    color:rgb(228, 172, 78)  
}
```

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(228, 172, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 172, 78) }
```

Border

The CSS property to change the border of an element to XYZ 48.1226, 46.5491, 13.6563 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(228, 172, 78) }
```


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

```
.border{ border-color:rgb(228, 172, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 172, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 172, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 172, 78);  
box-shadow:4px 4px 4px 4px rgb(228, 172,  
78) }
```

Background

The CSS property to change the background color of an element to XYZ 48.1226, 46.5491, 13.6563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 172, 78) }
```

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

```
.background{ background-color: rgb(228,  
172, 78) }
```

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