

Converting Colors

CIELCh(46, 46.766, 119.878)

Have a look what the booklet for
CIELCh(46, 46.766, 119.878)
contains.

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Color

CIELCh(46, 46.930, 120.041)

Conversions

Conversions Part 1

Format	Color
Hex	5A7623
RGB	90, 118, 35
RGB Percent	35%, 46%, 14%
CMY	0.6468, 0.5370, 0.8625
CMYK	0.24, 0.00, 0.70, 0.54
HSL	80°, 54%, 30%
HSV	80°, 70%, 46%
XYZ	11.0115, 15.2687, 3.9613
YIQ	100.1660, 9.9550, -31.7490

Conversions

Conversions Part 2

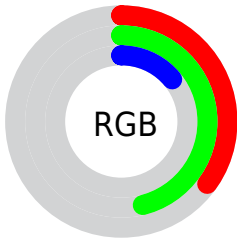
Format	Color
R_{YB}	35, 118, 63
Decimal	5928483
CIE _{Lab}	46.00, -23.49, 40.63
CIE _{LCh}	46, 46.930, 120.041
Yxy	15.2687, 0.3641, 0.5049
Android (android.graphics.Color)	4284118563 (0xFF5A7623)
YUV	100.1660, -32.1268, -8.9156
Hunter-Lab	39.0751, -18.0795, 21.3420

Details

The CIELCh color $46, 46.930, 120.041$ is a dark color, and the websafe version is hex 336600 . A complement of this color would be $22, 54.530, 308.059$, and the grayscale version is $43, 0.006, 296.813$.

A 20% lighter version of the original color is $66, 46.690, 120.244$, and $26, 40.494, 122.969$ is the 20% darker color. If you saturate the color by 10%, you get $46, 51.751, 120.085$, and if you desaturate by 10%, it is $46, 41.252, 120.254$.

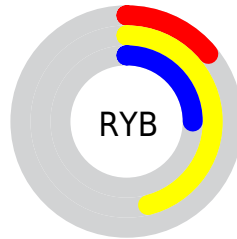
Distribution



Red (35%)

Green (46%)

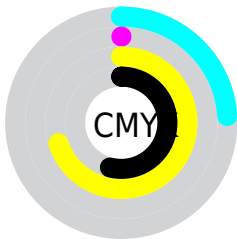
Blue (14%)



Red (14%)

Yellow (46%)

Blue (25%)

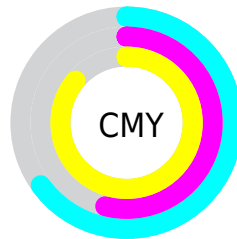


Cyan (24%)

Magenta (0%)

Yellow (70%)

Black (54%)



Cyan (65%)


Magenta (54%)


Yellow (86%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 46.930, 120.041 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 CIELCh color 46, 46.930, 120.041 by changing the saturation by 10% instead.


 46, 46.930,
120.041


 46, 46.930,
120.041


 100, 46.930,
120.041


 36, 46.930,
120.041

 66, 46.930,
120.041


 26, 46.930,
120.041

 76, 46.930,
120.041

 16, 46.930,
120.041

 86, 46.930,
120.041

 6, 46.930, 120.041

 96, 46.930,
120.041

 0, 46.930, 120.041

 46, 46.930,

 46, 46.930,

120.041

120.041

■ 46, 51.751,
120.085

■ 46, 41.252,
120.254

■ 45, 55.428,
120.482

■ 47, 34.983,
120.628

■ 45, 58.296,
121.039

■ 47, 28.331,
121.097

■ 48, 21.441,
121.614

■ 48, 14.416,
122.147

■ 49, 7.322, 122.678

■ 50, 0.210, 123.384

■ 50, 6.888, 303.663

■ 51, 13.947,

Harmonies

Complementary

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



46, 46.930, 120.041



22, 54.530, 308.059

Rectangle

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



46, 46.930, 120.041



46, 46.930, 170.041



46, 46.930, 300.041



46, 46.930, 350.041

Sweetspot

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



46, 46.930, 120.043



62, 18.431, 122.082



33, 34.700, 51.637



31, 12.394, 121.969



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46, 46.930, 120.043



58, 65.193, 120.265



44, 53.854, 135.540



24, 3.978, 122.745



47, 59.847, 121.096



90, 102.047, 121.922

Inverse Universe

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



22, 54.530, 308.059



24, 78.830, 308.885



28, 54.450, 322.376



22, 4.045, 303.669



15, 74.607, 309.198



36, 127.325, 308.665

Previews

White Background



This preview shows how the CIELCh color 46, 46.930, 120.041 looks on a white 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 × Fail

Black Background



This preview shows how the CIELCh color 46, 46.930, 120.041 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

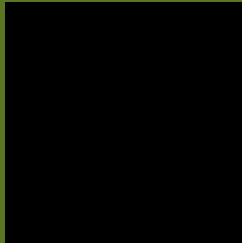
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 46, 46.930, 120.041

Background



This preview shows how black text looks on a background with the CIELCh color 46, 46.930, 120.041.



This preview shows how white text looks on a background with the CIELCh color 46, 46.930, 120.041.

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

46, 46.930, 120.041

Protanopia

46, 42.451, 95.612

Deuteranopia

46, 39.894, 80.884



Tritanopia
46, 6.516, 254.588

Trichromacy



Original Color
46, 46.930, 120.041

Protanomaly
46, 42.775, 105.479

Deuteranomaly
45, 39.631, 96.794

Tritanomaly
46, 16.466, 134.153

Monochromacy



Original Color
46, 46.930, 120.041

Achromatopsia
42, 0.006, 296.813

Achromatomaly
44, 18.985, 122.384

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 46.930, 120.041 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(90, 118, 35)` looks like.

```
.text, #text, p{  
    color:rgb(90, 118, 35)  
}
```

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(90, 118, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 118, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 46.930, 120.041 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(90, 118, 35) }
```

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

```
.border{ border-color:rgb(90, 118, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 118, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 118, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 118, 35);  
box-shadow:4px 4px 4px 4px rgb(90, 118,  
35) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 46.930, 120.041 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 118, 35) }
```

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

```
.background{ background-color: rgb(90, 118,  
35) }
```

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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