

# Converting Colors

CIELCh(46, 45.465, 17.691)

Have a look what the booklet for  
CIELCh(46, 45.465, 17.691) contains.

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# Color

**CIELCh(46, 45.611, 17.761)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B34B58
RGB	179, 75, 88
RGB Percent	70%, 29%, 35%
CMY	0.2988, 0.7066, 0.6556
CMYK	0.00, 0.58, 0.51, 0.30
HSL	352°, 41%, 50%
HSV	352°, 58%, 70%
XYZ	22.8014, 15.2687, 10.9416
YIQ	107.5780, 57.8110, 26.0910

# Conversions

## Conversions Part 2

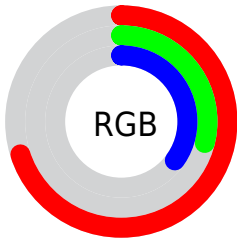
Format	Color
R <sub>Y</sub> B	179, 75, 88
Decimal	11750232
CIE Lab	46.00, 43.44, 13.91
CIE LCh	46, 45.611, 17.761
Yxy	15.2687, 0.4652, 0.3115
Android (android.graphics.Color)	4289940312 (0xFFB34B58)
YUV	107.5780, -9.6520, 62.6371
Hunter-Lab	39.0751, 35.7781, 10.7505

# Details

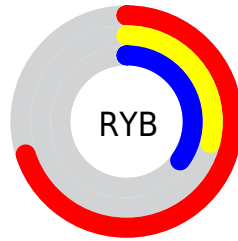
The CIELCh color **46, 45.611, 17.761** is a dark color, and the websafe version is hex **CC6666**. A complement of this color would be **67, 33.194, 184.106**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 45.253, 17.744**, and **26, 45.392, 17.579** is the 20% darker color. If you saturate the color by 10%, you get **43, 53.651, 20.777**, and if you desaturate by 10%, it is **50, 37.283, 15.383**.

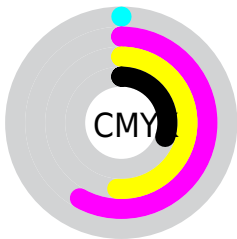
# Distribution



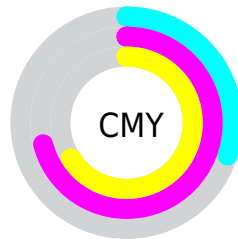
- Red (70%)
- Green (29%)
- Blue (35%)



- Red (70%)
- Yellow (29%)
- Blue (35%)



- Cyan (0%)
- Magenta (58%)
- Yellow (51%)
- Black (30%)















- Cyan (30%)
- Magenta (71%)
- Yellow (66%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 45.611, 17.761 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, 45.611, 17.761 by changing the saturation by 10% instead.



 46, 45.611, 17.761	 46, 45.611, 17.761
 100, 45.611, 17.761	 36, 45.611, 17.761
 66, 45.611, 17.761	 26, 45.611, 17.761
 76, 45.611, 17.761	 16, 45.611, 17.761
 86, 45.611, 17.761	 6, 45.611, 17.761
 96, 45.611, 17.761	 0, 45.611, 17.761

 46, 45.611, 17.761	 46, 45.611, 17.761
 43, 53.651, 20.777	 50, 37.283, 15.383
 40, 61.131, 24.524	 54, 28.951, 13.502

■ 38, 67.837, 28.960

■ 59, 20.826, 11.999

■ 37, 73.664, 33.610

■ 64, 13.047, 10.773

■ 37, 74.699, 34.351

■ 69, 5.683, 9.728

■ 74, 1.246, 189.371

■ 79, 7.749, 188.333

■ 84, 13.851,  
187.693

■ 89, 19.589,  
187.149

# Harmonies

# Complementary

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



46, 45.611, 17.761



67, 33.194, 184.106

# Rectangle

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



46, 45.611, 17.761



46, 45.611, 67.761



46, 45.611, 197.761



46, 45.611, 247.761

# Sweetspot

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



46, 45.608, 17.764



81, 15.066, 10.678



47, 65.244, 323.220



42, 10.219, 10.899



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



46, 45.608, 17.764



54, 68.057, 21.836



54, 38.753, 55.169



35, 3.957, 9.846



31, 66.137, 33.717



2, 9.263, 11.421





# Inverse Universe

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



46, 45.608, 17.764



54, 68.057, 21.836



56, 28.055, 249.958



35, 3.957, 9.846



31, 66.137, 33.717

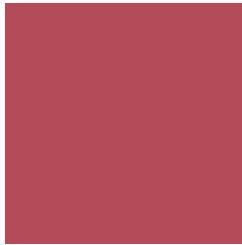


2, 9.263, 11.421



# Previews

## White Background



This preview shows how the CIELCh color 46, 45.611, 17.761 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 CIE LCh color 46, 45.611, 17.761 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

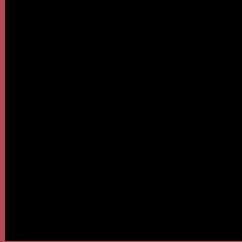
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 45.611, 17.761**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 45.611, 17.761.



This preview shows how white text looks on a background with the CIELCh color 46, 45.611, 17.761.

# 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, 45.611, 17.761

### Protanopia

46, 2.881, 74.522

### Deuteranopia

46, 17.124, 68.887



**Tritanopia**  
46, 45.661, 23.171



# Trichromacy



**Original Color**  
46, 45.611, 17.761

**Protanomaly**  
45, 17.392, 17.860

**Deuteranomaly**  
45, 24.928, 34.549

**Tritanomaly**  
46, 45.377, 21.744

# Monochromacy



**Original Color**  
46, 45.611, 17.761

**Achromatopsia**  
45, 0.006, 296.813

**Achromatomaly**  
44, 16.597, 11.463

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 45.611, 17.761 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(179, 75, 88)` looks like.

```
.text, #text, p{  
    color:rgb(179, 75, 88)  
}
```

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(179, 75, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 75, 88) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 45.611, 17.761 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(179, 75, 88) }
```

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

```
.border{ border-color:rgb(179, 75, 88) }
```

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

Here you see how a box with a 4 pixel rgb(179, 75, 88) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(179, 75, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(179, 75, 88);  
box-shadow:4px 4px 4px 4px rgb(179, 75,  
88) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 45.611, 17.761 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 75, 88) }
```

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

```
.background{ background-color: rgb(179, 75,  
88) }
```

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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