

Converting Colors

CIELCh(12, 7.489, 91.583)

Have a look what the booklet for
CIELCh(12, 7.489, 91.583) contains.

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Color

CIELCh(12, 7.524, 90.934)

Conversions

Conversions Part 1	
Format	Color
Hex	231F15
RGB	35, 31, 21
RGB Percent	14%, 12%, 8%
CMY	0.8619, 0.8776, 0.9169
CMYK	0.00, 0.11, 0.40, 0.86
HSL	43°, 25%, 11%
HSV	43°, 40%, 14%
XYZ	1.3326, 1.4064, 0.9205
YIQ	31.0560, 5.5940, -2.2620

Conversions

Conversions Part 2

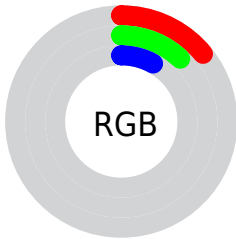
Format	Color
RYB	27, 35, 21
Decimal	2301717
CIELab	12.00, -0.12, 7.52
CIELCh	12, 7.524, 90.934
Yxy	1.4064, 0.3642, 0.3843
Android (android.graphics.Color)	4280491797 (0xFF231F15)
YUV	31.0560, -4.9576, 3.4589
Hunter-Lab	11.8591, -0.6947, 3.6991

Details

The CIELCh color **12, 7.524, 90.934** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **9, 7.612, 279.306**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 7.910, 91.742**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 9.208, 89.929**, and if you desaturate by 10%, it is **12, 5.611, 91.924**.

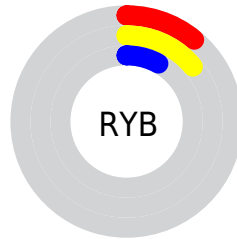
Distribution



Red (14%)

Green (12%)

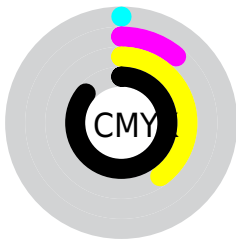
Blue (8%)



Red (11%)

Yellow (14%)

Blue (8%)

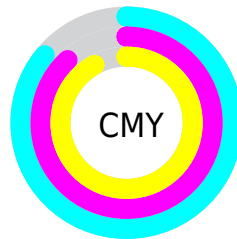


Cyan (0%)

Magenta (11%)

Yellow (40%)

Black (86%)



Cyan (86%)


Magenta (88%)

Yellow (92%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 7.524, 90.934 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 12, 7.524, 90.934 by changing the saturation by 10% instead.

 12, 7.524, 90.934  12, 7.524, 90.934

 100, 7.524, 90.934  2, 7.524, 90.934

 32, 7.524, 90.934  0, 7.524, 90.934

 42, 7.524, 90.934

 52, 7.524, 90.934

















 62, 7.524, 90.934

 72, 7.524, 90.934

 82, 7.524, 90.934

 92, 7.524, 90.934

 12, 7.524, 90.934  12, 7.524, 90.934

 12, 9.208, 89.929	 12, 5.611, 91.924
 11, 10.576, 88.816	 13, 3.704, 92.884
 11, 11.647, 87.544	 13, 1.819, 93.807
 10, 12.532, 86.216	 14, 0.044, 276.222
 10, 13.414, 85.082	 14, 1.884, 275.680
 10, 14.295, 84.115	 15, 3.700, 276.522
 10, 14.315, 84.095	 15, 5.494, 277.346
	 16, 7.266, 278.141
	 16, 9.017, 278.907

Harmonies

Complementary

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



12, 7.524, 90.934



9, 7.612, 279.306

Rectangle

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



12, 7.524, 90.934



12, 7.524, 140.934



12, 7.524, 270.934



12, 7.524, 320.934

Sweetspot

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



12, 7.524, 90.940



18, 2.805, 93.529



9, 7.972, 359.322



7, 1.617, 93.754



62, 0.008, 296.813



8, 0.002, 296.812

Same Dimension

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



12, 7.524, 90.940



16, 11.449, 89.764



13, 9.995, 115.918



5, 0.750, 94.091



26, 35.999, 82.165



66, 71.476, 79.886

Inverse Universe

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



9, 7.612, 279.306



11, 11.631, 281.098



8, 10.690, 300.485



5, 0.766, 275.368



11, 42.012, 295.976



34, 91.225, 299.311

Previews

White Background



This preview shows how the CIE LCh color 12, 7.524, 90.934 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 ✓ Pass

Black Background



This preview shows how the CIELCh color 12, 7.524, 90.934 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

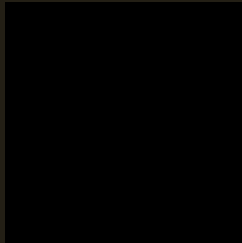
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 7.524, 90.934

Background



This preview shows how black text looks on a background with the CIELCh color 12, 7.524, 90.934.



This preview shows how white text looks on a background with the CIELCh color 12, 7.524, 90.934.

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

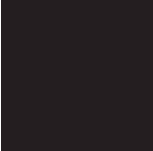
12, 7.524, 90.934

Protanopia

12, 7.945, 99.829

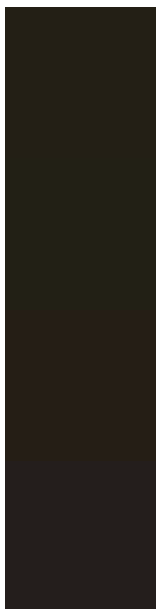
Deuteranopia

12, 7.918, 74.033



Tritanopia
12, 3.360, 354.879

Trichromacy



Original Color

12, 7.524, 90.934

Protanomaly

12, 7.945, 99.829

Deuteranomaly

12, 7.601, 77.474

Tritanomaly

12, 3.461, 44.695

Monochromacy



Original Color

12, 7.524, 90.934

Achromatopsia

12, 0.003, 296.813

Achromatomaly

12, 3.071, 89.404

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 7.524, 90.934 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(35, 31, 21)` looks like.

```
.text, #text, p{  
    color:rgb(35, 31, 21)  
}
```

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(35, 31, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 31, 21) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 7.524, 90.934 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(35, 31, 21) }
```

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

```
.border{ border-color:rgb(35, 31, 21) }
```

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

Here you see how a box with a 4 pixel rgb(35, 31, 21) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 31, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 31, 21);  
box-shadow:4px 4px 4px 4px rgb(35, 31, 21)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 7.524, 90.934 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 31, 21) }
```

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

```
.background{ background-color: rgb(35, 31,  
21) }
```

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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