

Converting Colors

CIELCh(12, 10.641, 107.140)

Have a look what the booklet for
CIELCh(12, 10.641, 107.140)
contains.

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Color

CIELCh(12, 10.381, 107.320)

Conversions

Conversions Part 1

Format	Color
Hex	202011
RGB	32, 32, 17
RGB Percent	13%, 13%, 7%
CMY	0.8732, 0.8731, 0.9317
CMYK	0.00, 0.00, 0.46, 0.87
HSL	60°, 30%, 10%
HSV	60°, 46%, 13%
XYZ	1.2366, 1.4064, 0.7536
YIQ	30.2900, 4.8150, -4.6650

Conversions

Conversions Part 2

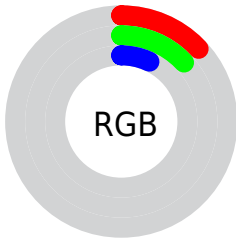
Format	Color
R_YB	17, 32, 17
Decimal	2105361
CIE Lab	12.00, -3.09, 9.91
CIE LCh	12, 10.381, 107.320
Yxy	1.4064, 0.3641, 0.4140
Android (android.graphics.Color)	4280295441 (0xFF202011)
YUV	30.2900, -6.5520, 1.4997
Hunter-Lab	11.8591, -2.1398, 4.5336

Details

The CIELCh color **12, 10.381, 107.320** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **6, 10.910, 292.063**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 10.678, 108.232**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 12.145, 107.158**, and if you desaturate by 10%, it is **12, 8.347, 107.674**.

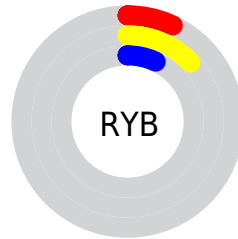
Distribution



Red (13%)

Green (13%)

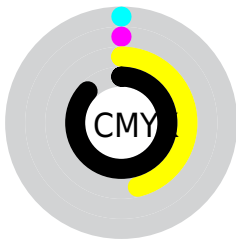
Blue (7%)



Red (7%)

Yellow (13%)

Blue (7%)

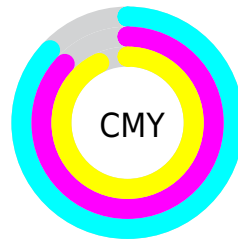


Cyan (0%)

Magenta (0%)

Yellow (46%)

Black (87%)



Cyan (87%)

Magenta (87%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 10.381, 107.320 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, 10.381, 107.320 by changing the saturation by 10% instead.

■ 12, 10.381,
107.320

■ 12, 10.381,
107.320

■ 100, 10.381,
107.320

■ 2, 10.381, 107.320

■ 32, 10.381,
107.320

■ 0, 10.381, 107.320

■ 42, 10.381,
107.320


■ 52, 10.381,
107.320


■ 62, 10.381,
107.320


■ 72, 10.381,
107.320


■ 82, 10.381,

107.320


 92, 10.381,
107.320

 12, 10.381,
107.320


 12, 10.381,
107.320

 12, 12.145,
107.158


 12, 8.347, 107.674

 12, 13.649,
107.082


 12, 6.078, 108.347

 12, 14.966,
107.049

 12, 3.765, 109.066

 12, 16.275,
107.039

 12, 1.439, 109.774

 12, 17.585,
107.048

 12, 0.893, 290.515

 13, 3.227, 291.193

 13, 5.558, 291.867

■ 12, 18.085,
107.056

■ 13, 7.884, 292.524

■ 13, 10.202,
293.159

Harmonies

Complementary

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



12, 10.381, 107.320



6, 10.910, 292.063

Rectangle

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



12, 10.381, 107.320



12, 10.381, 157.320



12, 10.381, 287.320



12, 10.381, 337.320

Sweetspot

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



12, 10.382, 107.323



16, 3.973, 109.155



7, 8.070, 19.605



6, 2.148, 110.223



61, 0.008, 296.813



6, 0.002, 296.812

Same Dimension

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



12, 10.382, 107.323



16, 15.245, 106.088



11, 11.204, 128.322



4, 0.784, 110.216



32, 41.458, 102.920



81, 82.677, 102.927

Inverse Universe

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



6, 10.910, 292.063



7, 16.854, 295.363



7, 11.591, 309.733



4, 0.786, 290.233



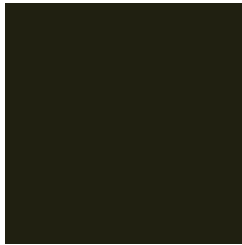
5, 55.511, 305.181



25, 114.155, 306.290

Previews

White Background



This preview shows how the CIELCh color 12, 10.381, 107.320 looks on a white background.

Color Contrast Check

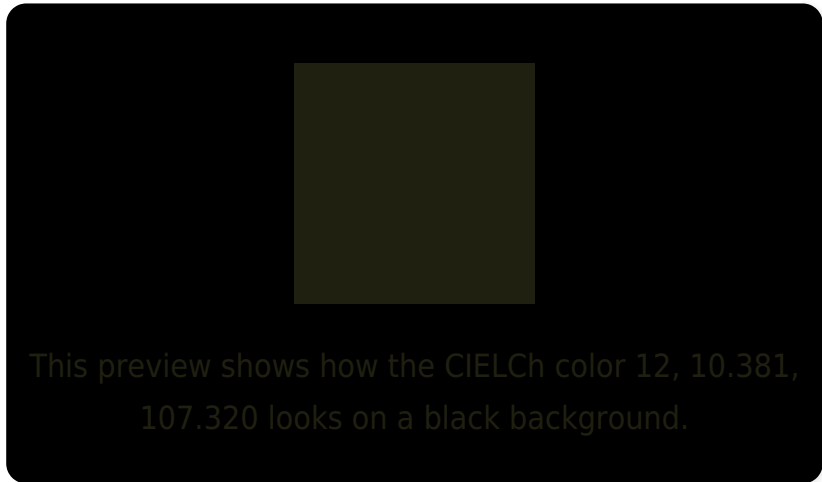
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



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

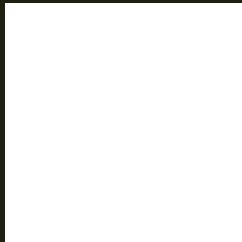
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 12, 10.381, 107.320

Background



This preview shows how black text looks on a background with the CIELCh color 12, 10.381, 107.320.

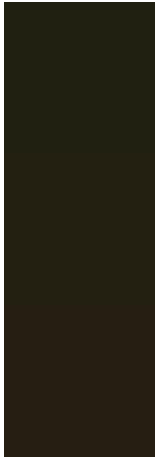


This preview shows how white text looks on a background with the CIELCh color 12, 10.381, 107.320.

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, 10.381, 107.320

Protanopia

12, 10.525, 98.081

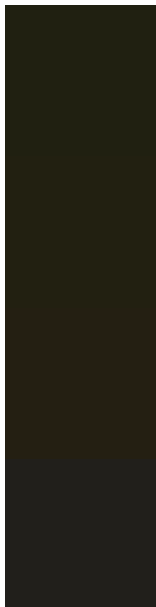
Deuteranopia

12, 9.617, 79.752



Tritanopia
12, 2.088, 336.081

Trichromacy



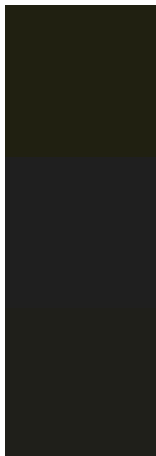
Original Color
12, 10.381, 107.320

Protanomaly
12, 10.444, 101.145

Deuteranomaly
12, 9.555, 90.492

Tritanomaly
12, 3.071, 89.404

Monochromacy



Original Color
12, 10.381, 107.320

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 3.617, 109.035

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 10.381, 107.320 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(32, 32, 17)` looks like.

```
.text, #text, p{  
    color:rgb(32, 32, 17)  
}
```

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(32, 32, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 32, 17) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 10.381, 107.320 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(32, 32, 17) }
```

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

```
.border{ border-color:rgb(32, 32, 17) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 32, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 32, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 32, 17);  
box-shadow:4px 4px 4px 4px rgb(32, 32, 17)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 10.381, 107.320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 32, 17) }
```

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

```
.background{ background-color: rgb(32, 32,  
17) }
```

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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