

Converting Colors

CIELCh(20, 43.560, 106.221)

Have a look what the booklet for
CIELCh(20, 43.560, 106.221)
contains.

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Color

CIELCh(20, 30.068, 110.981)

Conversions

Conversions Part 1

Format	Color
Hex	2D3400
RGB	45, 52, 0
RGB Percent	18%, 20%, 0%
CMY	0.8243, 0.7969, 1.0000
CMYK	0.14, 0.00, 1.00, 0.80
HSL	68°, 100%, 10%
HSV	68°, 100%, 20%
XYZ	2.2897, 2.9891, 0.4480
YIQ	43.9790, 12.5200, -17.6560

Conversions

Conversions Part 2

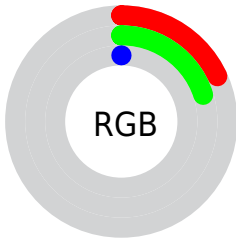
Format	Color
RYB	0, 52, 7
Decimal	2962432
CIELab	20.00, -10.77, 28.07
CIELCh	20, 30.068, 110.981
Yxy	2.9891, 0.3998, 0.5219
Android (android.graphics.Color)	4281152512 (0xFF2D3400)
YUV	43.9790, -21.6816, 0.8954
Hunter-Lab	17.2889, -6.6149, 10.5658

Details

The CIELCh color **20, 30.068, 110.981** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **3, 34.591, 300.280**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 30.006, 111.041**, and **0, 0.492, 144.443** is the 20% darker color. If you saturate the color by 10%, you get **20, 29.955, 111.021**, and if you desaturate by 10%, it is **20, 27.842, 111.007**.

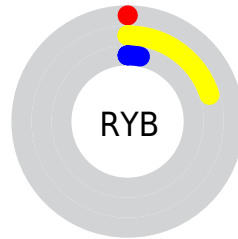
Distribution



Red (18%)

Green (20%)

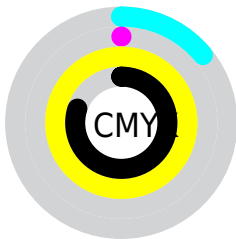
Blue (0%)



Red (0%)

Yellow (20%)

Blue (3%)

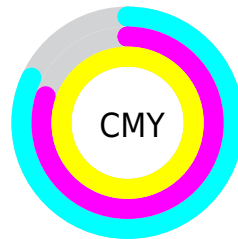


Cyan (14%)

Magenta (0%)

Yellow (100%)

Black (80%)



Cyan (82%)


Magenta (80%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 30.068, 110.981 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 20, 30.068, 110.981 by changing the saturation by 10% instead.

 20, 30.068,
110.981


 20, 30.068,
110.981


 100, 30.068,
110.981


 10, 30.068,
110.981


 40, 30.068,
110.981

 0, 30.068, 110.981

 50, 30.068,
110.981

 60, 30.068,
110.981

 70, 30.068,
110.981

 80, 30.068,
110.981

 90, 30.068,

110.981

■ 20, 30.068,
110.981

■ 20, 30.068,
110.981

■ 20, 29.955,
111.021

■ 20, 27.842,
111.007

■ 20, 25.734,
111.016

■ 20, 23.270,
111.221

■ 20, 20.302,
111.716

■ 21, 17.129,
112.287

■ 21, 13.821,
112.904

■ 21, 10.426,
113.544

■ 21, 6.976, 114.193

■ 21, 3.494, 114.838

Harmonies

Complementary

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



20, 30.068, 110.981



3, 34.591, 300.280

Rectangle

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



20, 30.068, 110.981



20, 30.068, 160.981



20, 30.068, 290.981



20, 30.068, 340.981

Sweetspot

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



20, 29.955, 111.021



27, 12.818, 113.449



8, 25.085, 29.407



12, 8.547, 113.418



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



20, 29.955, 111.021



26, 36.937, 110.301



18, 34.065, 131.573



9, 1.904, 114.965



36, 45.548, 110.471



82, 86.820, 111.108

Inverse Universe

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



3, 34.591, 300.280



4, 46.401, 304.943



5, 36.998, 315.895



8, 1.934, 295.932



7, 61.213, 307.169



27, 117.496, 306.745

Previews

White Background



This preview shows how the CIE LCh color 20, 30.068, 110.981 looks on a white background.

Color Contrast Check

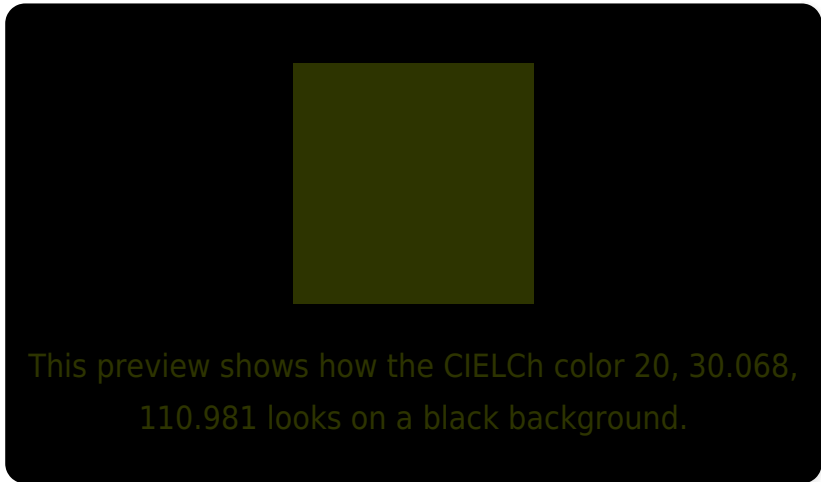
Large Text (above 18pt) WCAG AA ✓ Pass

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

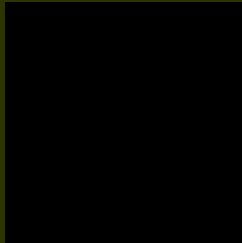
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 30.068, 110.981

Background



This preview shows how black text looks on a background with the CIELCh color 20, 30.068, 110.981.

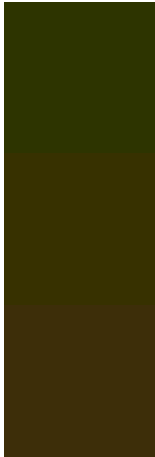


This preview shows how white text looks on a background with the CIELCh color 20, 30.068, 110.981.

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


20, 30.068, 110.981

Protanopia

20, 28.537, 96.937

Deuteranopia

20, 24.775, 84.496



Tritanopia
20, 2.770, 300.316

Trichromacy



Original Color
20, 30.068, 110.981

Protanomaly
20, 28.798, 102.614

Deuteranomaly
20, 25.679, 95.362

Tritanomaly
20, 10.811, 112.971

Monochromacy



Original Color
20, 30.068, 110.981

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 12.903, 113.921

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 30.068, 110.981 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(45, 52, 0)` looks like.

```
.text, #text, p{  
    color:rgb(45, 52, 0)  
}
```

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(45, 52, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 52, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 30.068, 110.981 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(45, 52, 0) }
```

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

```
.border{ border-color:rgb(45, 52, 0) }
```

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

Here you see how a box with a 4 pixel rgb(45, 52, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 52, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(45, 52, 0); box-shadow:4px  
4px 4px 4px rgb(45, 52, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 30.068, 110.981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 52, 0) }
```

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

```
.background{ background-color: rgb(45, 52,  
0) }
```

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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