

Converting Colors

CIELCh(20, 33.339, 133.236)

Have a look what the booklet for
CIELCh(20, 33.339, 133.236)
contains.

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Color

CIELCh(20, 33.485, 133.363)

Conversions

Conversions Part 1

Format	Color
Hex	153808
RGB	21, 56, 8
RGB Percent	8%, 22%, 3%
CMY	0.9182, 0.7810, 0.9693
CMYK	0.63, 0.00, 0.86, 0.78
HSL	104°, 75%, 12%
HSV	104°, 86%, 22%
XYZ	1.7560, 2.9891, 0.7088
YIQ	40.0630, -5.4520, -22.3480

Conversions

Conversions Part 2

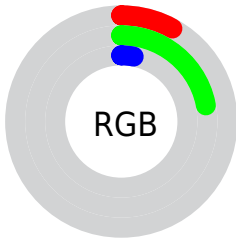
Format	Color
R_YB	8, 56, 43
Decimal	1390600
CIE _{Lab}	20.00, -22.99, 24.34
CIE _{LCh}	20, 33.485, 133.363
Yxy	2.9891, 0.3220, 0.5481
Android (android.graphics.Color)	4279580680 (0xFF153808)
YUV	40.0630, -15.8071, -16.7183
Hunter-Lab	17.2889, -12.1251, 9.6714

Details

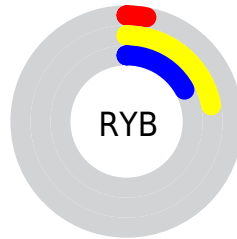
The CIELCh color **20, 33.485, 133.363** is a dark color, and the websafe version is hex **003300**. A complement of this color would be **9, 34.998, 319.163**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 33.346, 133.433**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **20, 36.226, 133.370**, and if you desaturate by 10%, it is **20, 30.577, 133.290**.

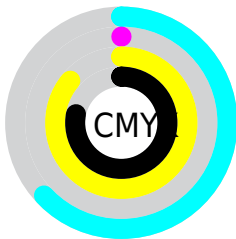
Distribution



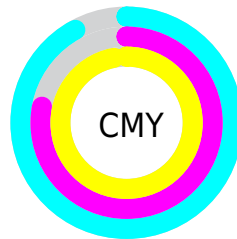
- Red (8%)
- Green (22%)
- Blue (3%)



- Red (3%)
- Yellow (22%)
- Blue (17%)



- Cyan (63%)
- Magenta (0%)
- Yellow (86%)
- Black (78%)





- Cyan (92%)
- Magenta (78%)
- Yellow (97%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 20, 33.485, 133.363 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, 33.485, 133.363 by changing the saturation by 10% instead.

 20, 33.485,
133.363


 20, 33.485,
133.363


 100, 33.485,
133.363


 10, 33.485,
133.363


 40, 33.485,
133.363

 0, 33.485, 133.363

 50, 33.485,
133.363

 60, 33.485,
133.363

 70, 33.485,
133.363

 80, 33.485,
133.363

 90, 33.485,

133.363

■ 20, 33.485,
133.363

■ 20, 33.485,
133.363

■ 20, 36.226,
133.370

■ 20, 30.577,
133.290

■ 20, 37.304,
133.323

■ 21, 27.084,
133.652

■ 21, 23.273,
134.129

■ 21, 19.265,
134.630

■ 22, 15.135,
135.125

■ 22, 10.939,
135.595

■ 23, 6.719, 136.032

■ 23, 2.509, 136.445

■ 24, 1.667, 316.722

Harmonies

Complementary

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



20, 33.485, 133.363



9, 34.998, 319.163

Rectangle

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



20, 33.485, 133.363



20, 33.485, 183.363



20, 33.485, 313.363



20, 33.485, 3.363

Sweetspot

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



20, 33.485, 133.364



29, 13.431, 135.541



18, 22.892, 84.945



13, 8.922, 135.511



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



20, 33.485, 133.364



26, 45.444, 132.435



20, 31.462, 143.242



10, 2.326, 136.348



34, 54.446, 132.771



77, 103.769, 133.778

Inverse Universe

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



9, 34.998, 319.163



10, 47.364, 319.190



11, 30.362, 336.437



9, 2.341, 316.908



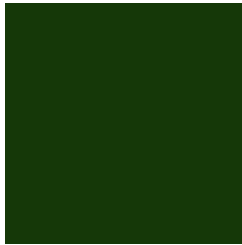
15, 56.301, 318.880



42, 106.365, 318.183

Previews

White Background



This preview shows how the CIELCh color 20, 33.485, 133.363 looks on a white background.

Color Contrast Check

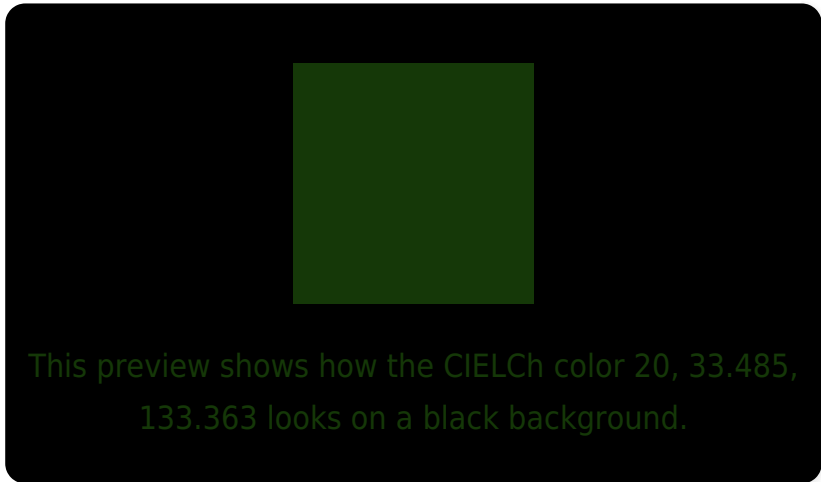
Large Text (above 18pt) WCAG AA ✓ Pass

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

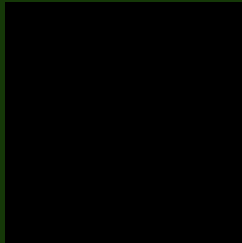
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 33.485, 133.363

Background



This preview shows how black text looks on a background with the CIELCh color 20, 33.485, 133.363.



This preview shows how white text looks on a background with the CIELCh color 20, 33.485, 133.363.

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, 33.485, 133.363

Protanopia

20, 26.122, 96.710

Deuteranopia

20, 22.649, 83.158



Tritanopia
20, 9.103, 215.411

Trichromacy



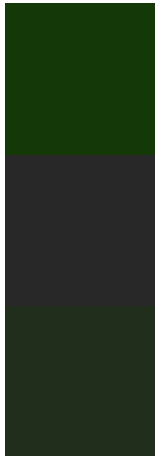
Original Color
20, 33.485, 133.363

Protanomaly
20, 26.845, 113.406

Deuteranomaly
20, 23.994, 109.705

Tritanomaly
20, 15.583, 155.781

Monochromacy



Original Color
20, 33.485, 133.363

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 13.933, 134.862

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 33.485, 133.363 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(21, 56, 8)` looks like.

```
.text, #text, p{  
    color:rgb(21, 56, 8)  
}
```

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(21, 56, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 56, 8) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 33.485, 133.363 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(21, 56, 8) }
```

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

```
.border{ border-color:rgb(21, 56, 8) }
```

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

Here you see how a box with a 4 pixel `rgb(21, 56, 8)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 56, 8); -webkit-box-shadow:4px  
4px 4px 4px rgb(21, 56, 8); box-shadow:4px  
4px 4px 4px rgb(21, 56, 8) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 33.485, 133.363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 56, 8) }
```

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

```
.background{ background-color: rgb(21, 56,  
8) }
```

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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