

Converting Colors

CIELCh(18, 20.688, 104.043)

Have a look what the booklet for
CIELCh(18, 20.688, 104.043)
contains.

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Color

CIELCh(18, 20.656, 103.446)

Conversions

Conversions Part 1

Format	Color
Hex	2E2D0D
RGB	46, 45, 13
RGB Percent	18%, 18%, 5%
CMY	0.8184, 0.8223, 0.9476
CMYK	0.00, 0.02, 0.71, 0.82
HSL	58°, 55%, 12%
HSV	58°, 71%, 18%
XYZ	2.1656, 2.5180, 0.7652
YIQ	41.6510, 10.8680, -9.7400

Conversions

Conversions Part 2

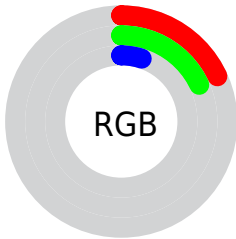
Format	Color
R _Y B	14, 46, 13
Decimal	3026189
CIE Lab	18.00, -4.80, 20.09
CIE LCh	18, 20.656, 103.446
Yxy	2.5180, 0.3974, 0.4621
Android (android.graphics.Color)	4281216269 (0xFF2E2D0D)
YUV	41.6510, -14.1249, 3.8141
Hunter-Lab	15.8683, -3.4088, 8.2488

Details

The CIELCh color **18, 20.656, 103.446** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **6, 23.502, 295.929**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 20.605, 102.851**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 22.577, 103.047**, and if you desaturate by 10%, it is **18, 18.227, 104.034**.

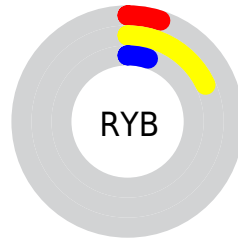
Distribution



Red (18%)

Green (18%)

Blue (5%)



Red (5%)

Yellow (18%)

Blue (5%)

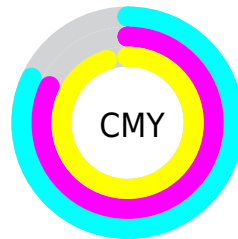


Cyan (0%)

Magenta (2%)

Yellow (71%)

Black (82%)



Cyan (82%)

Magenta (82%)

Yellow (95%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 20.656, 103.446 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 18, 20.656, 103.446 by changing the saturation by 10% instead.

 18, 20.656,
103.446

 18, 20.656,
103.446

 100, 20.656,
103.446


 8, 20.656, 103.446


 38, 20.656,
103.446

 0, 20.656, 103.446

 48, 20.656,
103.446

 58, 20.656,
103.446


 68, 20.656,
103.446


 78, 20.656,
103.446


 88, 20.656,


103.446

 98, 20.656,
103.446


 18, 20.656,
103.446


 18, 20.656,
103.446

 18, 22.577,
103.047

 18, 18.227,
104.034

 18, 24.365,
102.729

 18, 15.418,
104.802

 18, 25.953,
102.492

 18, 12.497,
105.600

 19, 9.506, 106.412

 19, 6.471, 107.229

 19, 3.413, 108.040

■ 19, 0.344, 108.772

■ 19, 2.727, 289.651

■ 19, 5.794, 290.414

Harmonies

Complementary

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



18, 20.656, 103.446



6, 23.502, 295.929

Rectangle

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



18, 20.656, 103.446



18, 20.656, 153.446



18, 20.656, 283.446



18, 20.656, 333.446

Sweetspot

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



18, 20.656, 103.449



25, 8.130, 107.137



8, 18.268, 21.221



11, 5.372, 107.131



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



18, 20.656, 103.449



24, 29.967, 102.124



17, 22.808, 125.653



8, 1.564, 108.875



35, 43.252, 101.053



81, 83.058, 100.885

Inverse Universe

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



6, 23.502, 295.929



6, 36.912, 300.641



7, 25.068, 310.723



7, 1.572, 289.008



7, 58.777, 305.221



27, 116.024, 305.983

Previews

White Background



This preview shows how the CIELCh color 18, 20.656, 103.446 looks on a white background.

Color Contrast Check

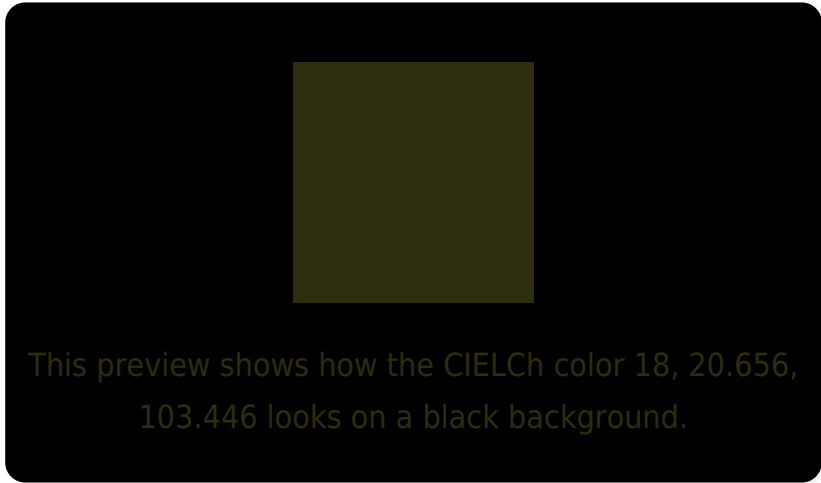
Large Text (above 18pt) WCAG AA ✓ Pass

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

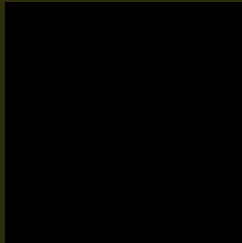
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

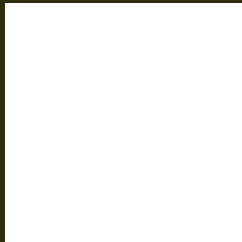
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 18, 20.656, 103.446

Background



This preview shows how black text looks on a background with the CIELCh color 18, 20.656, 103.446.

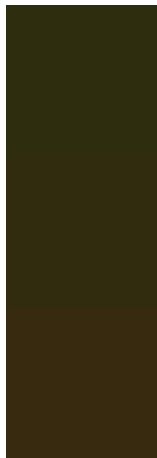


This preview shows how white text looks on a background with the CIELCh color 18, 20.656, 103.446.

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


18, 20.656, 103.446

Protanopia

18, 20.308, 97.141

Deuteranopia

18, 19.547, 83.416



Tritanopia
18, 4.335, 340.892

Trichromacy



Original Color
18, 20.656, 103.446

Protanomaly
18, 20.223, 98.721

Deuteranomaly
18, 19.776, 90.412

Tritanomaly
18, 6.715, 86.072

Monochromacy



Original Color
18, 20.656, 103.446

Achromatopsia
17, 0.003, 296.813

Achromatomaly
17, 7.584, 104.304

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 20.656, 103.446 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(46, 45, 13)` looks like.

```
.text, #text, p{  
    color:rgb(46, 45, 13)  
}
```

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(46, 45, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 45, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 20.656, 103.446 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(46, 45, 13) }
```

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

```
.border{ border-color:rgb(46, 45, 13) }
```

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

Here you see how a box with a 4 pixel rgb(46, 45, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 45, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 45, 13);  
box-shadow:4px 4px 4px 4px rgb(46, 45, 13)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 20.656, 103.446 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 45, 13) }
```

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

```
.background{ background-color: rgb(46, 45,  
13) }
```

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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