

Converting Colors

CIELCh(20, 17.780, 43.017)

Have a look what the booklet for
CIELCh(20, 17.780, 43.017) contains.

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Color

CIELCh(20, 17.803, 44.329)

Conversions

Conversions Part 1

Format	Color
Hex	47291F
RGB	71, 41, 31
RGB Percent	28%, 16%, 12%
CMY	0.7229, 0.8404, 0.8796
CMYK	0.00, 0.42, 0.57, 0.72
HSL	15°, 39%, 20%
HSV	15°, 57%, 28%
XYZ	3.5995, 2.9891, 1.6637
YIQ	48.8300, 21.0900, 3.2500

Conversions

Conversions Part 2

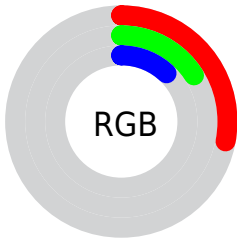
Format	Color
RYB	71, 44, 31
Decimal	4663583
CIELab	20.00, 12.74, 12.44
CIELCh	20, 17.803, 44.329
Yxy	2.9891, 0.4362, 0.3622
Android (android.graphics.Color)	4282853663 (0xFF47291F)
YUV	48.8300, -8.7902, 19.4431
Hunter-Lab	17.2889, 6.9075, 6.3969




Details

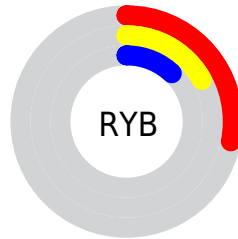
The CIELCh color **20, 17.803, 44.329** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **24, 12.404, 230.505**, and the grayscale version is **20, 0.004, 296.813**.




A 20% lighter version of the original color is **40, 17.568, 45.410**, and **2, 9.436, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **18, 21.673, 44.529**, and if you desaturate by 10%, it is **22, 14.141, 44.275**.

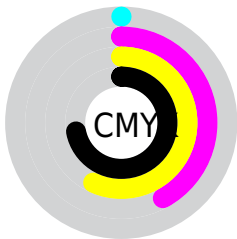
Distribution







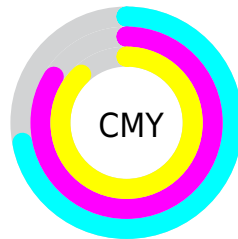
-  Red (28%)
-  Green (16%)
-  Blue (12%)






-  Red (28%)
-  Yellow (17%)
-  Blue (12%)



-  Cyan (0%)
-  Magenta (42%)
-  Yellow (57%)
-  Black (72%)



-  Cyan (72%)
-  Magenta (84%)
-  Yellow (88%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 17.803, 44.329 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, 17.803, 44.329 by changing the saturation by 10% instead.

 20, 17.803, 44.329

 20, 17.803, 44.329

 100, 17.803,
44.329

 10, 17.803, 44.329

 40, 17.803, 44.329

 0, 17.803, 44.329

 50, 17.803, 44.329

 60, 17.803, 44.329

 70, 17.803, 44.329

 80, 17.803, 44.329

 90, 17.803, 44.329

 20, 17.803, 44.329

 20, 17.803, 44.329

■ 18, 21.673, 44.529

■ 22, 14.141, 44.275

■ 17, 25.587, 44.590

■ 23, 10.706, 44.344

■ 16, 28.793, 43.240

■ 25, 7.498, 44.518

■ 14, 31.607, 41.854

■ 27, 4.507, 44.769

■ 14, 32.553, 41.559

■ 29, 1.719, 45.023

■ 31, 0.883, 225.850

■ 33, 3.318, 226.077

■ 34, 5.603, 226.510

■ 36, 7.754, 226.978

Harmonies

Complementary

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



20, 17.803, 44.329



24, 12.404, 230.505

Rectangle

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



20, 17.803, 44.329



20, 17.803, 94.329



20, 17.803, 224.329



20, 17.803, 274.329

Sweetspot

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



20, 17.802, 44.333



35, 5.782, 44.738



18, 25.952, 335.965



16, 3.820, 44.719



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



20, 17.802, 44.333



24, 27.890, 44.650



26, 19.959, 90.934



13, 1.490, 44.982



21, 45.449, 44.540



51, 89.251, 44.868

Inverse Universe

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



24, 12.404, 230.505



30, 17.367, 233.190



17, 20.930, 285.982



13, 1.425, 225.923



29, 22.601, 243.264



65, 42.052, 246.937

Previews

White Background



This preview shows how the CIE LCh color 20, 17.803, 44.329 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 CIE LCh color 20, 17.803, 44.329 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

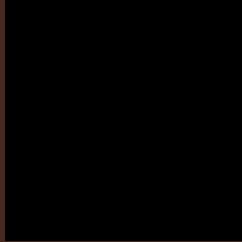
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 17.803, 44.329

Background



This preview shows how black text looks on a background with the CIELCh color 20, 17.803, 44.329.

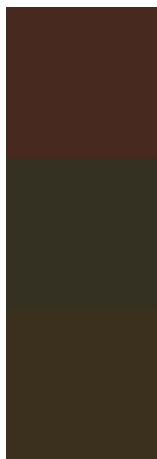


This preview shows how white text looks on a background with the CIELCh color 20, 17.803, 44.329.

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, 17.803, 44.329

Protanopia

20, 10.304, 96.198

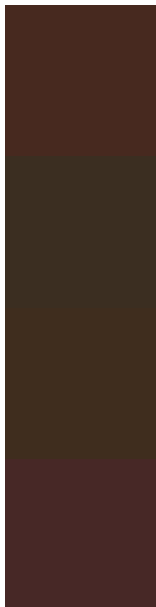
Deuteranopia

20, 13.233, 78.520



Tritanopia
20, 16.113, 16.309

Trichromacy



Original Color
20, 17.803, 44.329

Protanomaly
20, 11.266, 70.687

Deuteranomaly
20, 14.238, 65.079

Tritanomaly
20, 16.113, 27.792

Monochromacy



Original Color
20, 17.803, 44.329

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 6.146, 46.389

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 17.803, 44.329 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(71, 41, 31)` looks like.

```
.text, #text, p{  
    color:rgb(71, 41, 31)  
}
```

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(71, 41, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 41, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 17.803, 44.329 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(71, 41, 31) }
```

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

```
.border{ border-color:rgb(71, 41, 31) }
```

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

Here you see how a box with a 4 pixel rgb(71, 41, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 41, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 41, 31);  
box-shadow:4px 4px 4px 4px rgb(71, 41, 31)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 17.803, 44.329 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 41, 31) }
```

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

```
.background{ background-color: rgb(71, 41,  
31) }
```

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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