

Converting Colors

CIELCh(12, 56.582, 354.502)

Have a look what the booklet for
CIELCh(12, 56.582, 354.502)
contains.

CIELCh(17, 39.865, 3.164)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(17, 39.865, 3.164)

Conversions

Conversions Part 1

Format	Color
Hex	5A0028
RGB	90, 0, 40
RGB Percent	35%, 0%, 16%
CMY	0.6472, 1.0000, 0.8424
CMYK	0.00, 1.00, 0.55, 0.65
HSL	333°, 100%, 18%
HSV	333°, 100%, 35%
XYZ	4.5874, 2.3023, 2.2271
YIQ	31.4700, 40.8000, 31.5200

Conversions

Conversions Part 2

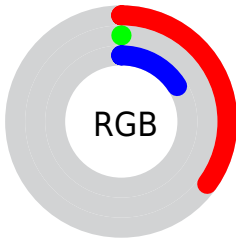
Format	Color
R_{YB}	90, 0, 40
Decimal	5898280
CIE _{Lab}	17.00, 39.80, 2.20
CIE _{LCh}	17, 39.865, 3.164
Yxy	2.3023, 0.5032, 0.2525
Android (android.graphics.Color)	4284088360 (0xFF5A0028)
YUV	31.4700, 4.2053, 51.3308
Hunter-Lab	15.1734, 27.4129, 1.9190

Details

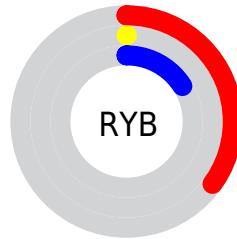
The CIELCh color **17, 39.865, 3.164** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **33, 37.980, 153.799**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 39.148, 3.455**, and **4, 19.370, 18.235** is the 20% darker color. If you saturate the color by 10%, you get **17, 39.538, 3.430**, and if you desaturate by 10%, it is **18, 37.336, 0.482**.

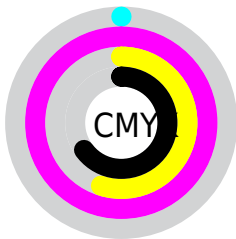
Distribution



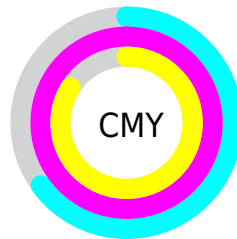
- Red (35%)
- Green (0%)
- Blue (16%)



- Red (35%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (55%)
- Black (65%)



- Cyan (65%)
- Magenta (100%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 17, 39.865, 3.164 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 17, 39.865, 3.164 by changing the saturation by 10% instead.

 17, 39.865, 3.164  17, 39.865, 3.164

 100, 39.865, 3.164  7, 39.865, 3.164

 37, 39.865, 3.164  0, 39.865, 3.164

 47, 39.865, 3.164

 57, 39.865, 3.164

 67, 39.865, 3.164

 77, 39.865, 3.164

 87, 39.865, 3.164

 97, 39.865, 3.164

 17, 39.865, 3.164  17, 39.865, 3.164

■ 17, 39.538, 3.430

■ 18, 37.336, 0.482

■ 19, 35.006,
357.583

■ 21, 31.826,
355.250

■ 23, 27.952,
353.355

■ 25, 23.590,
351.785

■ 27, 18.938,
350.459

■ 30, 14.154,
349.312

■ 33, 9.357, 348.301

■ 35, 4.624, 347.381

Harmonies

Complementary

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



17, 39.865, 3.164



33, 37.980, 153.799

Rectangle

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



17, 39.865, 3.164



17, 39.865, 53.164



17, 39.865, 183.164



17, 39.865, 233.164

Sweetspot

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



17, 39.538, 3.430



39, 17.623, 349.417



12, 57.328, 313.900



18, 11.918, 349.705



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



17, 39.538, 3.430



24, 47.588, 5.038



17, 44.457, 35.771



17, 2.630, 347.278



22, 45.368, 4.658



51, 79.937, 7.979

Inverse Universe

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



17, 39.538, 3.430



24, 47.588, 5.038



32, 22.012, 204.069



17, 2.630, 347.278



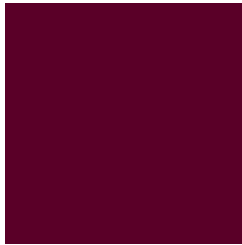
22, 45.368, 4.658



51, 79.937, 7.979

Previews

White Background



This preview shows how the CIELCh color 17, 39.865, 3.164 looks on a white background.

Color Contrast Check

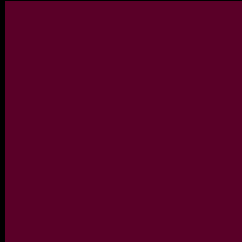
Large Text (above 18pt) WCAG AA ✓ Pass

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 17, 39.865, 3.164 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

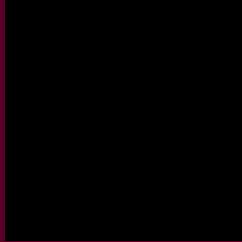
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 17, 39.865, 3.164

Background



This preview shows how black text looks on a background with the CIELCh color 17, 39.865, 3.164.



This preview shows how white text looks on a background with the CIELCh color 17, 39.865, 3.164.

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

17, 39.539, 3.636

Protanopia

19, 8.288, 283.350

Deuteranopia

19, 7.730, 71.915



Tritanopia
18, 38.566, 32.033

Trichromacy



Original Color
17, 39.539, 3.636

Protanomaly
16, 20.798, 335.847

Deuteranomaly
17, 19.628, 7.412

Tritanomaly
18, 37.771, 21.527

Monochromacy



Original Color
17, 39.539, 3.636

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 18.187, 353.309

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 17, 39.865, 3.164 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(90, 0, 40)` looks like.

```
.text, #text, p{  
    color:rgb(90, 0, 40)  
}
```

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(90, 0, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 0, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 17, 39.865, 3.164 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(90, 0, 40) }
```

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

```
.border{ border-color:rgb(90, 0, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 0, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 0, 40); -webkit-box-shadow:4px  
4px 4px 4px rgb(90, 0, 40); box-shadow:4px  
4px 4px 4px rgb(90, 0, 40) }
```

Background

The CSS property to change the background color of an element to CIELCh 17, 39.865, 3.164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 0, 40) }
```

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

```
.background{ background-color: rgb(90, 0,  
40) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor