

Converting Colors

CIELCh(21, 12.801, 51.082)

Have a look what the booklet for
CIELCh(21, 12.801, 51.082) contains.

CIELCh(21, 13.076, 51.676)	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(21, 13.076, 51.676)

Conversions

Conversions Part 1

Format	Color
Hex	432E24
RGB	67, 46, 36
RGB Percent	26%, 18%, 14%
CMY	0.7383, 0.8205, 0.8597
CMYK	0.00, 0.31, 0.46, 0.74
HSL	19°, 30%, 20%
HSV	19°, 46%, 26%
XYZ	3.5792, 3.2451, 2.0882
YIQ	51.1390, 15.7260, 1.3420

Conversions

Conversions Part 2

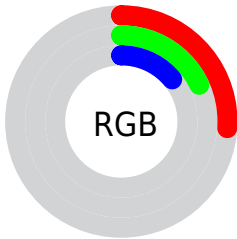
Format	Color
RYB	67, 51, 36
Decimal	4402724
CIELab	21.00, 8.11, 10.26
CIElCh	21, 13.076, 51.676
Yxy	3.2451, 0.4016, 0.3641
Android (android.graphics.Color)	4282592804 (0xFF432E24)
YUV	51.1390, -7.4635, 13.9101
Hunter-Lab	18.0142, 3.9405, 5.7370

Details

The CIELCh color **21, 13.076, 51.676** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **23, 10.224, 239.514**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 12.849, 51.415**, and **2, 7.827, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **20, 16.427, 51.288**, and if you desaturate by 10%, it is **23, 9.920, 52.151**.

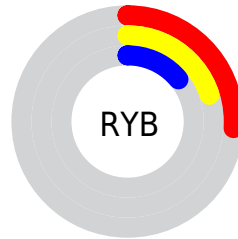
Distribution



Red (26%)

Green (18%)

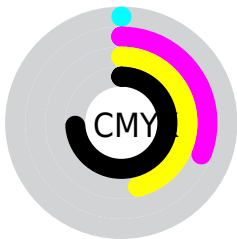
Blue (14%)



Red (26%)

Yellow (20%)

Blue (14%)

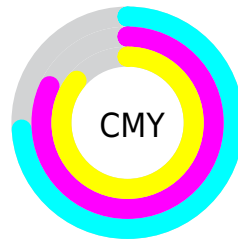


Cyan (0%)

Magenta (31%)

Yellow (46%)

Black (74%)



Cyan (74%)

Magenta (82%)

Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 13.076, 51.676 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 21, 13.076, 51.676 by changing the saturation by 10% instead.

■ 21, 13.076, 51.676

■ 21, 13.076, 51.676

■ 100, 13.076,
51.676

■ 11, 13.076, 51.676

■ 41, 13.076, 51.676

■ 1, 13.076, 51.676

■ 51, 13.076, 51.676

■ 0, 13.076, 51.676

■ 61, 13.076, 51.676

■ 71, 13.076, 51.676

■ 81, 13.076, 51.676

■ 91, 13.076, 51.676

■ 21, 13.076, 51.676

■ 21, 13.076, 51.676

■ 20, 16.427, 51.288

■ 23, 9.920, 52.151

■ 18, 19.960, 50.972

■ 24, 6.960, 52.684

■ 17, 23.461, 50.365

■ 26, 4.185, 53.259

■ 16, 26.259, 48.446

■ 27, 1.582, 53.808

■ 14, 28.786, 46.574

■ 29, 0.865, 234.880

■ 14, 29.686, 46.066

■ 31, 3.169, 235.374

■ 32, 5.347, 236.039

■ 34, 7.412, 236.723

■ 36, 9.376, 237.408

Harmonies

Complementary

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



21, 13.076, 51.676



23, 10.224, 239.514

Rectangle

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



21, 13.076, 51.676



21, 13.076, 101.676



21, 13.076, 231.676



21, 13.076, 281.676

Sweetspot

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



21, 13.076, 51.682



34, 4.413, 53.365



19, 19.736, 338.120



16, 3.008, 53.309



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



21, 13.076, 51.682



26, 20.399, 51.221



26, 16.579, 96.630



12, 1.376, 53.707



22, 43.046, 48.739



53, 85.191, 48.123

Inverse Universe

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



23, 10.224, 239.514



28, 14.779, 241.785



17, 17.581, 287.649



12, 1.326, 235.101



26, 24.231, 256.725



60, 46.495, 260.937

Previews

White Background



This preview shows how the CIE LCh color 21, 13.076, 51.676 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 21, 13.076, 51.676 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

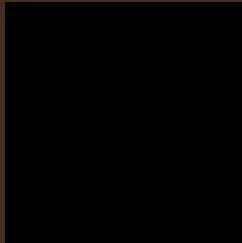
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 21, 13.076, 51.676

Background



This preview shows how black text looks on a background with the CIELCh color 21, 13.076, 51.676.



This preview shows how white text looks on a background with the CIELCh color 21, 13.076, 51.676.

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

21, 13.076, 51.676

Protanopia

21, 8.838, 98.263

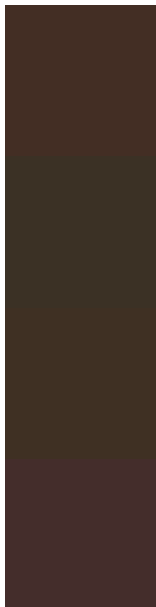
Deuteranopia

21, 11.382, 74.689



Tritanopia
21, 11.890, 12.484

Trichromacy



Original Color
21, 13.076, 51.676

Protanomaly
21, 9.628, 76.021

Deuteranomaly
21, 11.883, 66.888

Tritanomaly
21, 11.691, 28.355

Monochromacy



Original Color
21, 13.076, 51.676

Achromatopsia
21, 0.004, 296.813

Achromatomaly
21, 4.765, 54.268

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 13.076, 51.676 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(67, 46, 36)` looks like.

```
.text, #text, p{  
    color:rgb(67, 46, 36)  
}
```

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(67, 46, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 46, 36) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 13.076, 51.676 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(67, 46, 36) }
```

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

```
.border{ border-color:rgb(67, 46, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 46, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 46, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 46, 36);  
box-shadow:4px 4px 4px 4px rgb(67, 46, 36)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 13.076, 51.676 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 46, 36) }
```

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

```
.background{ background-color: rgb(67, 46,  
36) }
```

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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