

Converting Colors

CIELCh(20, 20.253, 59.522)

Have a look what the booklet for
CIELCh(20, 20.253, 59.522) contains.

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Color

CIELCh(20, 20.253, 59.522)

Conversions

Conversions Part 1

Format	Color
Hex	452A17
RGB	69, 42, 23
RGB Percent	27%, 16%, 9%
CMY	0.7292, 0.8351, 0.9096
CMYK	0.00, 0.39, 0.67, 0.73
HSL	25°, 50%, 18%
HSV	25°, 67%, 27%
XYZ	3.4434, 2.9891, 1.2086
YIQ	47.9070, 22.1910, -0.1850

Conversions

Conversions Part 2

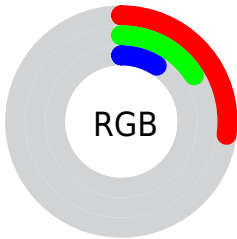
Format	Color
R_{YB}	69, 55, 23
Decimal	4532759
CIE _{Lab}	20.00, 10.27, 17.45
CIE _{LCh}	20, 20.253, 59.522
Yxy	2.9891, 0.4506, 0.3912
Android (android.graphics.Color)	4282722839 (0xFF452A17)
YUV	47.9070, -12.2792, 18.4986
Hunter-Lab	17.2889, 5.2961, 7.9573

Details

The CIELCh color **20, 20.253, 59.522** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **20, 15.332, 256.961**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 20.194, 59.316**, and **2, 7.329, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **19, 23.756, 58.588**, and if you desaturate by 10%, it is **21, 16.774, 60.356**.

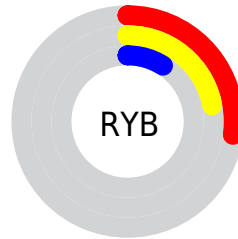
Distribution



 Red (27%)

 Green (16%)

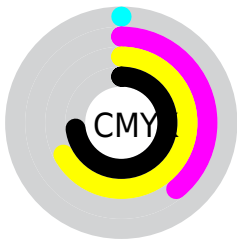
 Blue (9%)



 Red (27%)

 Yellow (22%)

 Blue (9%)

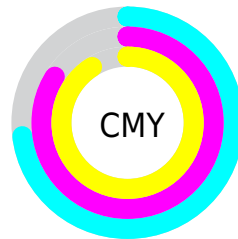


 Cyan (0%)

 Magenta (39%)

 Yellow (67%)

 Black (73%)



 Cyan (73%)

 Magenta (84%)

 Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 20.253, 59.522 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, 20.253, 59.522 by changing the saturation by 10% instead.

 20, 20.253, 59.522

 20, 20.253, 59.522

 100, 20.253,
59.522

 10, 20.253, 59.522

 0, 20.253, 59.522

 40, 20.253, 59.522

 50, 20.253, 59.522

 60, 20.253, 59.522

 70, 20.253, 59.522

 80, 20.253, 59.522

 90, 20.253, 59.522

 20, 20.253, 59.522

 20, 20.253, 59.522

■ 19, 23.756, 58.588

■ 21, 16.774, 60.356

■ 18, 26.534, 56.610

■ 23, 13.438, 61.204

■ 16, 28.986, 54.539

■ 24, 10.265, 62.077

■ 16, 29.816, 53.956

■ 25, 7.257, 62.972

■ 27, 4.409, 63.875

■ 28, 1.709, 64.732

■ 30, 0.854, 246.022

■ 31, 3.294, 246.771

■ 33, 5.624, 247.658

Harmonies

Complementary

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



20, 20.253, 59.522



20, 15.332, 256.961

Rectangle

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



20, 20.253, 59.522



20, 20.253, 109.522



20, 20.253, 239.522



20, 20.253, 289.522

Sweetspot

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



20, 20.253, 59.526



34, 6.638, 63.499



16, 26.670, 344.400



16, 4.585, 63.379



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, 20.253, 59.526



24, 31.133, 58.091



27, 25.782, 99.538



13, 1.487, 64.573



25, 42.604, 55.341



56, 81.723, 53.488

Inverse Universe

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



20, 15.332, 256.961



24, 21.988, 262.325



12, 29.766, 295.709



13, 1.446, 246.421



24, 28.919, 270.868



54, 56.022, 274.832

Previews

White Background



This preview shows how the CIELCh color 20, 20.253, 59.522 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 CIELCh color 20, 20.253, 59.522 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

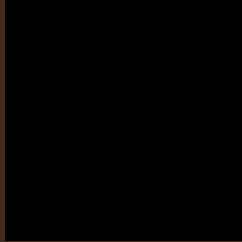
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

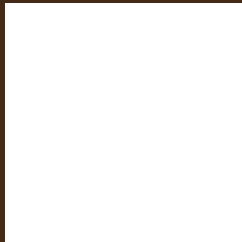
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 20, 20.253, 59.522

Background



This preview shows how black text looks on a background with the CIELCh color 20, 20.253, 59.522.

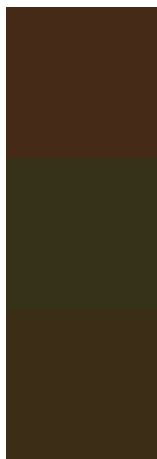


This preview shows how white text looks on a background with the CIELCh color 20, 20.253, 59.522.

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, 20.253, 59.522

Protanopia

20, 16.189, 96.762

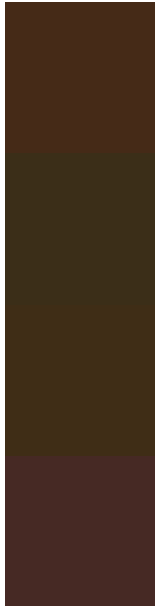
Deuteranopia

20, 17.982, 80.818



Tritanopia
20, 15.057, 15.478

Trichromacy



Original Color

20, 20.253, 59.522

Protanomaly

20, 16.540, 81.087

Deuteranomaly

20, 18.647, 74.115

Tritanomaly

20, 15.680, 34.864

Monochromacy



Original Color

20, 20.253, 59.522

Achromatopsia

20, 0.004, 296.813

Achromatomaly

20, 6.992, 62.594

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 20.253, 59.522 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(69, 42, 23)` looks like.

```
.text, #text, p{  
    color:rgb(69, 42, 23)  
}
```

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(69, 42, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 42, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 20.253, 59.522 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(69, 42, 23) }
```

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

```
.border{ border-color:rgb(69, 42, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 42, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 42, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 42, 23);  
box-shadow:4px 4px 4px 4px rgb(69, 42, 23)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 20.253, 59.522 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 42, 23) }
```

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

```
.background{ background-color: rgb(69, 42,  
23) }
```

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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