

Converting Colors

CIELCh(33, 20.002, 57.975)

Have a look what the booklet for
CIELCh(33, 20.002, 57.975) contains.

CIELCh(33, 20.260, 58.511)	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(33, 20.260, 58.511)

Conversions

Conversions Part 1

Format	Color
Hex	664733
RGB	102, 71, 51
RGB Percent	40%, 28%, 20%
CMY	0.6007, 0.7222, 0.8006
CMYK	0.00, 0.30, 0.50, 0.60
HSL	24°, 33%, 30%
HSV	24°, 50%, 40%
XYZ	8.2957, 7.5373, 4.1314
YIQ	77.9890, 24.8960, 0.3520

Conversions

Conversions Part 2

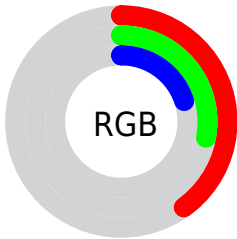
Format	Color
R_{YB}	102, 84, 51
Decimal	6702899
CIE Lab	33.00, 10.58, 17.28
CIE LCh	33, 20.260, 58.511
Yxy	7.5373, 0.4155, 0.3775
Android (android.graphics.Color)	4284892979 (0xFF664733)
YUV	77.9890, -13.3056, 21.0576
Hunter-Lab	27.4541, 5.8917, 10.2956

Details

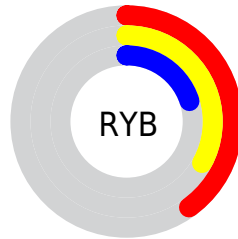
The CIELCh color **33, 20.260, 58.511** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **33, 16.043, 250.654**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 20.258, 56.884**, and **13, 20.115, 57.657** is the 20% darker color. If you saturate the color by 10%, you get **31, 25.040, 57.740**, and if you desaturate by 10%, it is **35, 15.719, 59.331**.

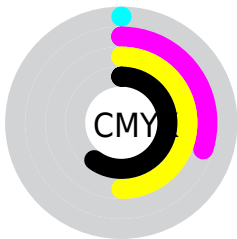
Distribution



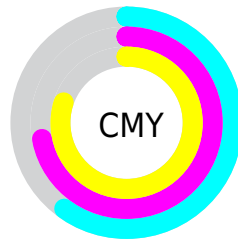
- Red (40%)
- Green (28%)
- Blue (20%)



- Red (40%)
- Yellow (33%)
- Blue (20%)



- Cyan (0%)
- Magenta (30%)
- Yellow (50%)
- Black (60%)



- Cyan (60%)
- Magenta (72%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 20.260, 58.511 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 33, 20.260, 58.511 by changing the saturation by 10% instead.

■ 33, 20.260, 58.511

■ 33, 20.260, 58.511

■ 100, 20.260,
58.511

■ 23, 20.260, 58.511

■ 53, 20.260, 58.511

■ 13, 20.260, 58.511

■ 63, 20.260, 58.511

■ 3, 20.260, 58.511

■ 73, 20.260, 58.511

■ 0, 20.260, 58.511

■ 83, 20.260, 58.511

■ 93, 20.260, 58.511

■ 33, 20.260, 58.511

■ 33, 20.260, 58.511

■ 31, 25.040, 57.740

■ 35, 15.719, 59.331

■ 29, 30.002, 56.978

■ 37, 11.434, 60.185

■ 28, 35.007, 56.162

■ 39, 7.400, 61.066

■ 26, 39.731, 55.088

■ 41, 3.601, 61.945

■ 25, 43.837, 53.787

■ 43, 0.019, 48.647

■ 45, 3.369, 243.967

■ 47, 6.583, 244.853

■ 50, 9.643, 245.752

■ 52, 12.567,
246.638

Harmonies

Complementary

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



33, 20.260, 58.511



33, 16.043, 250.654

Rectangle

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



33, 20.260, 58.511



33, 20.260, 108.511



33, 20.260, 238.511



33, 20.260, 288.511

Sweetspot

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



33, 20.260, 58.516



51, 6.777, 61.477



29, 28.728, 341.986



25, 4.607, 61.347



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



33, 20.260, 58.516



41, 31.223, 57.613



40, 26.831, 99.883



20, 2.005, 62.041



28, 48.670, 53.874



59, 86.947, 51.969

Inverse Universe

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



33, 16.043, 250.654



41, 23.211, 253.723



25, 29.539, 292.198



20, 1.939, 243.945



28, 31.157, 268.905



59, 56.553, 272.199

Previews

White Background



This preview shows how the CIELCh color 33, 20.260, 58.511 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 33, 20.260, 58.511 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

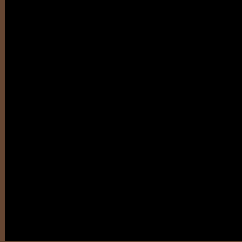
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 20.260, 58.511

Background



This preview shows how black text looks on a background with the CIELCh color 33, 20.260, 58.511.

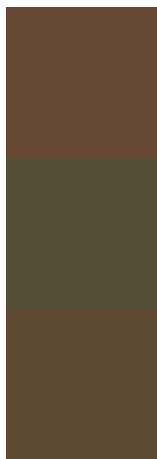


This preview shows how white text looks on a background with the CIELCh color 33, 20.260, 58.511.

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

33, 20.260, 58.511

Protanopia

33, 15.233, 96.579

Deuteranopia

33, 18.194, 74.501



Tritanopia
33, 16.654, 11.616

Trichromacy



Original Color
33, 20.260, 58.511

Protanomaly
33, 15.711, 79.910

Deuteranomaly
33, 18.979, 68.702

Tritanomaly
33, 16.351, 30.647

Monochromacy



Original Color
33, 20.260, 58.511

Achromatopsia
33, 0.005, 296.813

Achromatomaly
33, 7.082, 58.195

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 20.260, 58.511 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(102, 71, 51)` looks like.

```
.text, #text, p{  
    color:rgb(102, 71, 51)  
}
```

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(102, 71, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 71, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 20.260, 58.511 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(102, 71, 51) }
```

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

```
.border{ border-color:rgb(102, 71, 51) }
```

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

Here you see how a box with a 4 pixel rgb(102, 71, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 71, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 71, 51);  
box-shadow:4px 4px 4px 4px rgb(102, 71,  
51) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 20.260, 58.511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 71, 51) }
```

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

```
.background{ background-color: rgb(102, 71,  
51) }
```

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