

Converting Colors

CIELCh(77, 72.791, 73.710)

Have a look what the booklet for
CIELCh(77, 72.791, 73.710) contains.

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Color

CIELCh(77, 72.768, 73.537)

Conversions

Conversions Part 1

Format	Color
Hex	FFAD33
RGB	255, 173, 51
RGB Percent	100%, 68%, 20%
CMY	0.0000, 0.3206, 0.7989
CMYK	0.00, 0.32, 0.80, 0.00
HSL	36°, 100%, 60%
HSV	36°, 80%, 100%
XYZ	56.9341, 51.5317, 10.1084
YIQ	183.6100, 88.0340, -20.5580

Conversions

Conversions Part 2

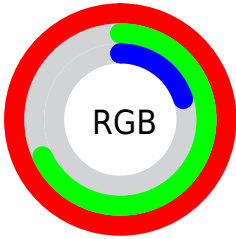
Format	Color
RYB	188, 255, 51
Decimal	16756019
CIELab	77.00, 20.62, 69.78
CIELCh	77, 72.768, 73.537
Yxy	51.5317, 0.4802, 0.4346
Android (android.graphics.Color)	4294946099 (0xFFFFAD33)
YUV	183.6100, -65.3767, 62.6090
Hunter-Lab	71.7856, 15.9458, 41.9011

Details

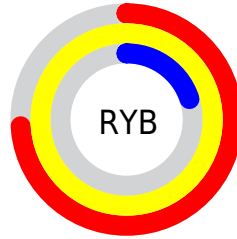
The CIELCh color **77, 72.768, 73.537** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **57, 69.948, 285.089**, and the grayscale version is **75, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 61.427, 94.533**, and **57, 66.954, 71.797** is the 20% darker color. If you saturate the color by 10%, you get **75, 79.101, 71.393**, and if you desaturate by 10%, it is **80, 64.371, 75.429**.

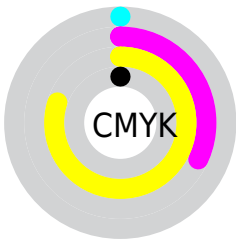
Distribution



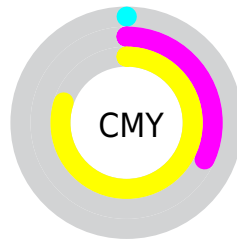
- Red (100%)
- Green (68%)
- Blue (20%)



- Red (74%)
- Yellow (100%)
- Blue (20%)



- Cyan (0%)
- Magenta (32%)
- Yellow (80%)
- Black (0%)



- Cyan (0%)
- Magenta (32%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 77, 72.768, 73.537 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 77, 72.768, 73.537 by changing the saturation by 10% instead.

77, 72.768, 73.537

77, 72.768, 73.537

100, 72.768,
73.537

67, 72.768, 73.537

97, 72.768, 73.537

57, 72.768, 73.537

47, 72.768, 73.537

37, 72.768, 73.537

27, 72.768, 73.537

17, 72.768, 73.537

7, 72.768, 73.537

0, 72.768, 73.537

77, 72.768, 73.537

77, 72.768, 73.537

75, 79.101, 71.393

80, 64.371, 75.429

72, 82.898, 68.571

82, 55.103, 77.028

72, 82.935, 68.541

85, 45.514, 78.520

88, 35.938, 79.953

91, 26.540, 81.345

94, 17.391, 82.696

97, 8.512, 83.996

100, 0.012,
296.813

Harmonies

Complementary

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



77, 72.768, 73.537



57, 69.948, 285.089

Rectangle

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



77, 72.768, 73.537



77, 72.768, 123.537



77, 72.768, 253.537



77, 72.768, 303.537

Sweetspot

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



77, 72.696, 73.618



93, 21.115, 82.147



57, 78.348, 2.175



48, 14.586, 81.663



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



77, 72.696, 73.618



73, 81.617, 69.711



96, 90.231, 107.830



52, 4.888, 84.045



55, 66.720, 69.185



18, 27.371, 71.737

Inverse Universe

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



57, 69.948, 285.089



50, 85.189, 291.596



39, 117.077, 304.834



50, 4.847, 266.627



36, 70.406, 292.427



10, 28.287, 286.698

Previews

White Background



This preview shows how the CIELCh color 77, 72.768, 73.537 looks on a white 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

Black Background



This preview shows how the CIELCh color 77, 72.768, 73.537 looks on a black 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

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

CIELCh 77, 72.768, 73.537

Background



This preview shows how black text looks on a background with the CIELCh color 77, 72.768, 73.537.



This preview shows how white text looks on a background with the CIELCh color 77, 72.768, 73.537.

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

77, 72.768, 73.537

Protanopia

77, 66.970, 95.566

Deuteranopia

77, 70.893, 82.237



Tritanopia
77, 35.561, 13.385

Trichromacy



Original Color
77, 72.768, 73.537

Protanomaly
77, 67.792, 87.479

Deuteranomaly
77, 71.419, 78.912

Tritanomaly
77, 42.782, 48.923

Monochromacy



Original Color
77, 72.768, 73.537

Achromatopsia
75, 0.009, 296.813

Achromatomaly
75, 26.846, 80.283

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 77, 72.768, 73.537 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(255, 173, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 173, 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(255, 173, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 173, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 77, 72.768, 73.537 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(255, 173, 51) }
```

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

```
.border{ border-color:rgb(255, 173, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 173, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 173, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 173, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 173,  
51) }
```

Background

The CSS property to change the background color of an element to CIELCh 77, 72.768, 73.537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 173, 51) }
```

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

```
.background{ background-color: rgb(255,  
173, 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](#).

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