

Converting Colors

CIELCh(78, 77.981, 77.190)

Have a look what the booklet for
CIELCh(78, 77.981, 77.190) contains.

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Color

CIELCh(78, 77.983, 76.996)

Conversions

Conversions Part 1

Format	Color
Hex	FFB221
RGB	255, 178, 33
RGB Percent	100%, 70%, 13%
CMY	0.0000, 0.3019, 0.8705
CMYK	0.00, 0.30, 0.87, 0.00
HSL	39°, 100%, 56%
HSV	39°, 87%, 100%
XYZ	57.4364, 53.2120, 8.6829
YIQ	184.4930, 92.4370, -28.7710

Conversions

Conversions Part 2

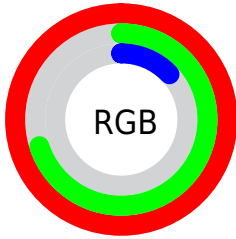
Format	Color
RYB	151, 255, 33
Decimal	16757281
CIELab	78.00, 17.55, 75.98
CIELCh	78, 77.983, 76.996
Yxy	53.2120, 0.4813, 0.4459
Android (android.graphics.Color)	4294947361 (0xFFFFB221)
YUV	184.4930, -74.6860, 61.8346
Hunter-Lab	72.9466, 12.8902, 44.0052

Details

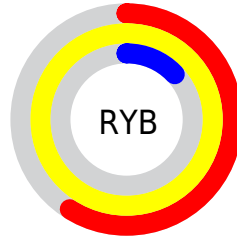
The CIELCh color **78, 77.983, 76.996** is a light color, and the websafe version is hex **FF9900**. The color can be described as light washed orange. A complement of this color would be **50, 84.059, 291.814**, and the grayscale version is **75, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 68.485, 97.238**, and **58, 66.898, 74.241** is the 20% darker color. If you saturate the color by 10%, you get **76, 81.720, 74.512**, and if you desaturate by 10%, it is **80, 71.477, 78.991**.

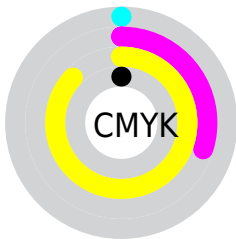
Distribution



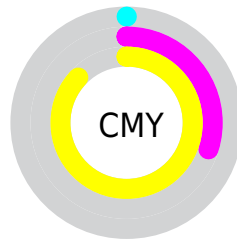
- Red (100%)
- Green (70%)
- Blue (13%)



- Red (59%)
- Yellow (100%)
- Blue (13%)



- Cyan (0%)
- Magenta (30%)
- Yellow (87%)
- Black (0%)



- Cyan (0%)
- Magenta (30%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 78, 77.983, 76.996 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 78, 77.983, 76.996 by changing the saturation by 10% instead.

 78, 77.983, 76.996

 78, 77.983, 76.996

 100, 77.983,
76.996

 68, 77.983, 76.996

 98, 77.983, 76.996

 58, 77.983, 76.996

 48, 77.983, 76.996

 38, 77.983, 76.996

 28, 77.983, 76.996

 18, 77.983, 76.996

 8, 77.983, 76.996

 0, 77.983, 76.996

 78, 77.983, 76.996

 78, 77.983, 76.996

76, 81.720, 74.512

80, 71.477, 78.991

75, 82.495, 73.722

83, 63.158, 80.694

85, 53.901, 82.246

87, 44.270, 83.715

90, 34.579, 85.131

93, 24.987, 86.505

95, 15.570, 87.835

98, 6.360, 89.100

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.



78, 77.983, 76.996



50, 84.059, 291.814

Rectangle

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



78, 77.983, 76.996



78, 77.983, 126.996



78, 77.983, 256.996



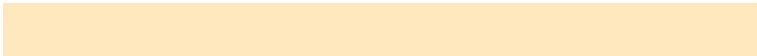
78, 77.983, 306.996

Sweetspot

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



78, 77.981, 76.999



93, 23.985, 86.647



56, 81.613, 10.892



49, 16.321, 86.178



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



78, 77.981, 76.999



75, 82.495, 73.722



95, 94.788, 111.416



52, 5.143, 88.800



58, 66.446, 74.292



19, 27.922, 77.055

Inverse Universe

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



50, 84.059, 291.814



45, 97.732, 296.570



37, 124.312, 306.328



50, 5.134, 271.329



33, 77.291, 295.921



9, 31.000, 290.665

Previews

White Background



This preview shows how the CIELCh color 78, 77.983, 76.996 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 78, 77.983, 76.996 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 78, 77.983, 76.996

Background



This preview shows how black text looks on a background with the CIELCh color 78, 77.983, 76.996.



This preview shows how white text looks on a background with the CIELCh color 78, 77.983, 76.996.

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

78, 77.983, 76.996

Protanopia

78, 73.867, 95.427

Deuteranopia

78, 77.049, 82.405



Tritanopia
78, 33.414, 13.422

Trichromacy



Original Color
78, 77.983, 76.996

Protanomaly
78, 74.163, 88.349

Deuteranomaly
78, 77.389, 80.362

Tritanomaly
78, 43.699, 54.886

Monochromacy



Original Color
78, 77.983, 76.996

Achromatopsia
75, 0.009, 296.813

Achromatomaly
75, 30.806, 85.075

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 78, 77.983, 76.996 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, 178, 33)` looks like.

```
.text, #text, p{  
    color:rgb(255, 178, 33)  
}
```

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, 178, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 178, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 78, 77.983, 76.996 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, 178, 33) }
```

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

```
.border{ border-color:rgb(255, 178, 33) }
```

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

Here you see how a box with a 4 pixel rgb(255, 178, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 178, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 178, 33);  
box-shadow:4px 4px 4px 4px rgb(255, 178,  
33) }
```

Background

The CSS property to change the background color of an element to CIELCh 78, 77.983, 76.996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 178, 33) }
```

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

```
.background{ background-color: rgb(255,  
178, 33) }
```

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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