

Converting Colors

CIELCh(48, 22.320, 160.978)

Have a look what the booklet for
CIELCh(48, 22.320, 160.978)
contains.

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Color

CIELCh(48, 22.199, 161.353)

Conversions

Conversions Part 1

Format	Color
Hex	4D7B65
RGB	77, 123, 101
RGB Percent	30%, 48%, 40%
CMY	0.6967, 0.5162, 0.6026
CMYK	0.37, 0.00, 0.18, 0.52
HSL	151°, 23%, 39%
HSV	151°, 37%, 48%
XYZ	12.5826, 16.7945, 14.9797
YIQ	106.7380, -20.3540, -16.5940

Conversions

Conversions Part 2

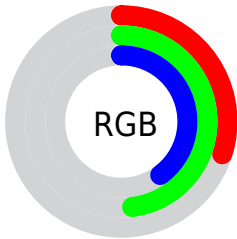
Format	Color
RYB	77, 107, 123
Decimal	5077861
CIELab	48.00, -21.03, 7.10
CIElCh	48, 22.199, 161.353
Yxy	16.7945, 0.2837, 0.3786
Android (android.graphics.Color)	4283267941 (0xFF4D7B65)
YUV	106.7380, -2.8288, -26.0802
Hunter-Lab	40.9810, -16.9110, 7.0146

Details

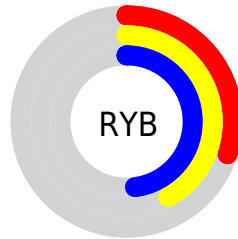
The CIELCh color $48, 22.199, 161.353$ is a dark color, and the websafe version is hex 336666 . A complement of this color would be $39, 23.299, 348.370$, and the grayscale version is $45, 0.006, 296.813$.

A 20% lighter version of the original color is $68, 22.258, 161.198$, and $28, 22.515, 161.080$ is the 20% darker color. If you saturate the color by 10%, you get $47, 27.757, 160.150$, and if you desaturate by 10%, it is $49, 16.397, 162.427$.

Distribution



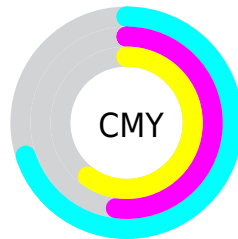
- Red (30%)
- Green (48%)
- Blue (40%)



- Red (30%)
- Yellow (42%)
- Blue (48%)



- Cyan (37%)
- Magenta (0%)
- Yellow (18%)
- Black (52%)



- Cyan (70%)
- Magenta (52%)
- Yellow (60%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 22.199, 161.353 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 48, 22.199, 161.353 by changing the saturation by 10% instead.


 48, 22.199,
161.353


 48, 22.199,
161.353


 100, 22.199,
161.353


 38, 22.199,
161.353

 68, 22.199,
161.353


 28, 22.199,
161.353

 78, 22.199,
161.353

 18, 22.199,
161.353

 88, 22.199,
161.353

 8, 22.199, 161.353

 98, 22.199,
161.353

 0, 22.199, 161.353

 48, 22.199,

 48, 22.199,

161.353

■ 47, 27.757,
160.150

■ 47, 32.975,
158.799

■ 46, 37.765,
157.277

■ 46, 42.056,
155.565

■ 45, 45.809,
153.658

■ 45, 49.106,
151.634

■ 45, 49.980,
151.124

161.353

■ 49, 16.397,
162.427

■ 50, 10.439,
163.398

■ 51, 4.406, 164.306

■ 52, 1.633, 344.855

■ 53, 7.625, 345.723

■ 55, 13.528,
346.413

■ 56, 19.314,
347.047

■ 58, 24.963,
347.637

■ 59, 30.462,

Harmonies

Complementary

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



48, 22.199, 161.353



39, 23.299, 348.370

Rectangle

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



48, 22.199, 161.353



48, 22.199, 211.353



48, 22.199, 341.353



48, 22.199, 31.353

Sweetspot

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



48, 22.200, 161.352



65, 8.245, 163.948



49, 28.408, 127.988



34, 5.583, 163.850



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



48, 22.200, 161.352



61, 32.842, 160.303



48, 16.137, 199.332



25, 3.379, 164.146



46, 50.474, 151.091



88, 87.248, 149.771

Inverse Universe

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



39, 23.299, 348.370



47, 34.778, 349.489



38, 20.760, 23.837



24, 3.423, 345.512



26, 49.929, 2.428



54, 83.820, 5.027

Previews

White Background



This preview shows how the CIELCh color 48, 22.199, 161.353 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 × Fail

Black Background



This preview shows how the CIELCh color 48, 22.199, 161.353 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

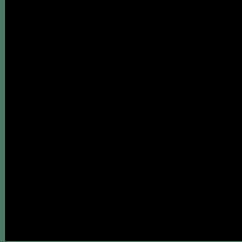
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 22.199, 161.353

Background



This preview shows how black text looks on a background with the CIELCh color 48, 22.199, 161.353.



This preview shows how white text looks on a background with the CIELCh color 48, 22.199, 161.353.

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


48, 22.199, 161.353

Protanopia

48, 10.307, 94.263

Deuteranopia

48, 8.631, 40.065



Tritanopia
48, 13.685, 221.145

Trichromacy



Original Color
48, 22.199, 161.353

Protanomaly
48, 12.440, 134.559

Deuteranomaly
47, 6.693, 123.706

Tritanomaly
48, 14.455, 193.142

Monochromacy



Original Color
48, 22.199, 161.353

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 8.402, 164.051

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 22.199, 161.353 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(77, 123, 101)` looks like.

```
.text, #text, p{  
    color:rgb(77, 123, 101)  
}
```

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(77, 123, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 123, 101) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 22.199, 161.353 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(77, 123, 101) }
```

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

```
.border{ border-color:rgb(77, 123, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 123, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 123, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 123, 101);  
box-shadow:4px 4px 4px 4px rgb(77, 123,  
101) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 22.199, 161.353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 123, 101) }
```

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

```
.background{ background-color: rgb(77, 123,  
101) }
```

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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