

Converting Colors

CIELCh(48, 20.350, 240.005)

Have a look what the booklet for
CIELCh(48, 20.350, 240.005)
contains.

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Color

CIELCh(48, 20.400, 240.218)

Conversions

Conversions Part 1

Format	Color
Hex	46788F
RGB	70, 120, 143
RGB Percent	27%, 47%, 56%
CMY	0.7245, 0.5284, 0.4382
CMYK	0.51, 0.16, 0.00, 0.44
HSL	199°, 34%, 42%
HSV	199°, 51%, 56%
XYZ	14.2675, 16.7945, 28.5768
YIQ	107.6720, -37.1830, -3.4470

Conversions

Conversions Part 2

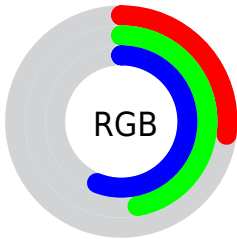
Format	Color
RYB	70, 100, 143
Decimal	4618383
CIELab	48.00, -10.13, -17.71
CIElCh	48, 20.400, 240.218
Yxy	16.7945, 0.2392, 0.2816
Android (android.graphics.Color)	4282808463 (0xFF46788F)
YUV	107.6720, 17.4167, -33.0383
Hunter-Lab	40.9810, -9.5724, -12.6572

Details

The CIELCh color **48, 20.400, 240.218** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **44, 27.918, 50.558**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 20.498, 241.007**, and **28, 20.409, 239.863** is the 20% darker color. If you saturate the color by 10%, you get **46, 23.465, 242.679**, and if you desaturate by 10%, it is **50, 16.971, 238.232**.

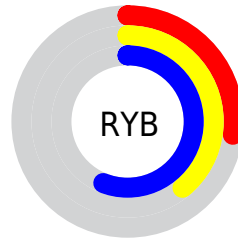
Distribution



Red (27%)

Green (47%)

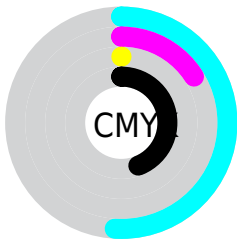
Blue (56%)



Red (27%)

Yellow (39%)

Blue (56%)

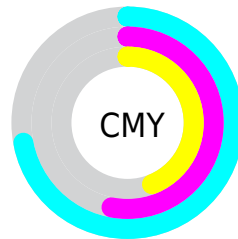


Cyan (51%)

Magenta (16%)

Yellow (0%)

Black (44%)



Cyan (72%)


Magenta (53%)


Yellow (44%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 20.400, 240.218 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, 20.400, 240.218 by changing the saturation by 10% instead.


 48, 20.400,
240.218


 48, 20.400,
240.218


 100, 20.400,
240.218


 38, 20.400,
240.218

 68, 20.400,
240.218


 28, 20.400,
240.218

 78, 20.400,
240.218

 18, 20.400,
240.218

 88, 20.400,
240.218

 8, 20.400, 240.218

 98, 20.400,
240.218

 0, 20.400, 240.218

 48, 20.400,

 48, 20.400,

240.218

■ 46, 23.465,
242.679

■ 44, 26.156,
245.701

■ 42, 28.493,
249.346

■ 41, 30.545,
253.631

■ 39, 32.332,
257.754

240.218

■ 50, 16.971,
238.232

■ 52, 13.214,
236.643

■ 55, 9.174, 235.382

■ 57, 4.900, 234.401

■ 59, 0.437, 234.397

■ 62, 4.172, 52.764

■ 64, 8.891, 52.292

■ 67, 13.691, 51.888

■ 69, 18.545, 51.557

Harmonies

Complementary

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



48, 20.400, 240.218



44, 27.918, 50.558

Rectangle

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



48, 20.400, 240.218



48, 20.400, 290.218



48, 20.400, 60.218



48, 20.400, 110.218

Sweetspot

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



48, 20.399, 240.217



71, 8.234, 234.795



54, 40.289, 149.624



37, 5.639, 234.982



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



48, 20.399, 240.217



59, 28.918, 243.046



37, 36.034, 288.654



29, 2.528, 234.258



37, 30.909, 257.454



1, 1.737, 233.456

Inverse Universe

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



41, 40.217, 338.856



49, 57.824, 340.001



54, 33.572, 94.504



28, 4.496, 335.486



29, 57.330, 345.422



1, 3.014, 334.904

Previews

White Background



This preview shows how the CIELCh color 48, 20.400, 240.218 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 CIE LCh color 48, 20.400, 240.218 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

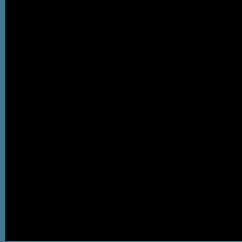
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

CIELCh 48, 20.400, 240.218

Background



This preview shows how black text looks on a background with the CIELCh color 48, 20.400, 240.218.



This preview shows how white text looks on a background with the CIELCh color 48, 20.400, 240.218.

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, 20.400, 240.218

Protanopia

48, 15.389, 286.762

Deuteranopia

48, 20.089, 289.784



Tritanopia
48, 19.140, 215.728

Trichromacy



Original Color
48, 20.400, 240.218

Protanomaly
48, 16.225, 265.135

Deuteranomaly
48, 18.746, 270.949

Tritanomaly
48, 19.063, 225.738

Monochromacy



Original Color
48, 20.400, 240.218

Achromatopsia
46, 0.006, 296.813

Achromatomaly
46, 8.513, 237.913

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 20.400, 240.218 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(70, 120, 143)` looks like.

```
.text, #text, p{  
    color:rgb(70, 120, 143)  
}
```

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(70, 120, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 120, 143) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 20.400, 240.218 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(70, 120, 143) }
```

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

```
.border{ border-color:rgb(70, 120, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 120, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 120, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 120, 143);  
box-shadow:4px 4px 4px 4px rgb(70, 120,  
143) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 20.400, 240.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 120, 143) }
```

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

```
.background{ background-color: rgb(70, 120,  
143) }
```

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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