

Converting Colors

CIE Lab(21.25, 0.00, 0.00)

Have a look what the booklet for
CIELab(21.25, 0.00, 0.00) contains.

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Color

CIELab(21.25, 0.00, 0.00)

Conversions

Conversions Part 1

Format	Color
Hex	333333
RGB	51, 51, 51
RGB Percent	20%, 20%, 20%
CMY	0.8000, 0.8000, 0.8000
CMYK	0.00, 0.00, 0.00, 0.80
HSL	78°, 0%, 20%
HSV	78°, 0%, 20%
XYZ	3.1473, 3.3113, 3.6055
YIQ	51.0000, -0.0000, -0.0000

Conversions

Conversions Part 2

Format	Color
R _Y B	51, 51, 51
Decimal	3355443
CIE Lab	21.25, 0.00, 0.00
CIE LCh	21, 0.000, 0.000
Yxy	3.3113, 0.3127, 0.3290
Android (android.graphics.Color)	4281545523 (0xFF333333)
YUV	51.0000, 0.0000, 0.0000
Hunter-Lab	18.1971, -0.9719, 0.9905

Details

The CIELab color $21.25, 0.00, 0.00$ is a dark color, and the **websafe** version is hex 333333 , and the color name is **dark charcoal**. A complement of this color would be $21.25, 0.00, -0.01$, and the grayscale version is $21.25, 0.00, -0.00$.

A 20% lighter version of the original color is $41.14, 0.00, -0.01$, and $1.37, 0.00, -0.00$ is the 20% darker color. If you saturate the color by 10%, you get $20.94, -1.84, 3.00$, and if you desaturate by 10%, it is $21.58, 1.89, -2.97$.

Distribution



 Red (20%)

 Green (20%)

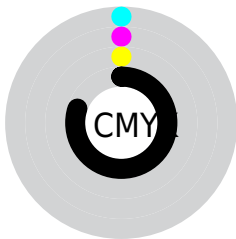
 Blue (20%)



 Red (20%)

 Yellow (20%)

 Blue (20%)



 Cyan (0%)


 Magenta (0%)

 Yellow (0%)

 Black (80%)



 Cyan (80%)

 Magenta (80%)

 Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELab color 21.25, 0.00, 0.00 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 CIELab color 21.25, 0.00, 0.00 by changing the saturation by 10% instead.

■ 21.25, 0.00, 0.00	■ 21.25, 0.00, 0.00
■ 20.94, -1.84, 3.00	■ 21.58, 1.89, -2.97
■ 20.65, -3.63, 6.03	■ 21.93, 3.81, -5.90
■ 20.37, -5.35, 9.07	■ 22.29, 5.76, -8.78
■ 20.12, -7.00, 12.09	■ 22.67, 7.73, -11.62
■ 19.88, -8.56, 15.07	■ 23.07, 9.72, -14.41
■ 19.66, -10.03, 17.96	■ 23.48, 11.72, -17.15
■ 19.46, -11.40, 20.67	■ 23.91, 13.72, -19.85
■ 19.28, -12.66, 22.84	■ 24.35, 15.71, -22.49
■ 19.11, -13.87, 24.69	■ 24.81, 17.71, -25.10

Harmonies

Complementary

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



21.25, 0.00, 0.00



21.25, 0.00, -0.01

Sweetspot

The sweet spot groups the original color and five complimentary colors.



21.25, -0.00, 0.00



28.11, 0.00, -0.00



21.25, 0.00, -0.00



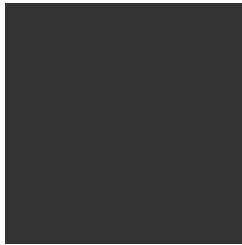
12.81, 0.00, -0.00



66.11, 0.00, -0.01

Previews

White Background



This preview shows how the CIE Lab color 21.25, 0.00, 0.00 looks on a white background.

Color Contrast Check

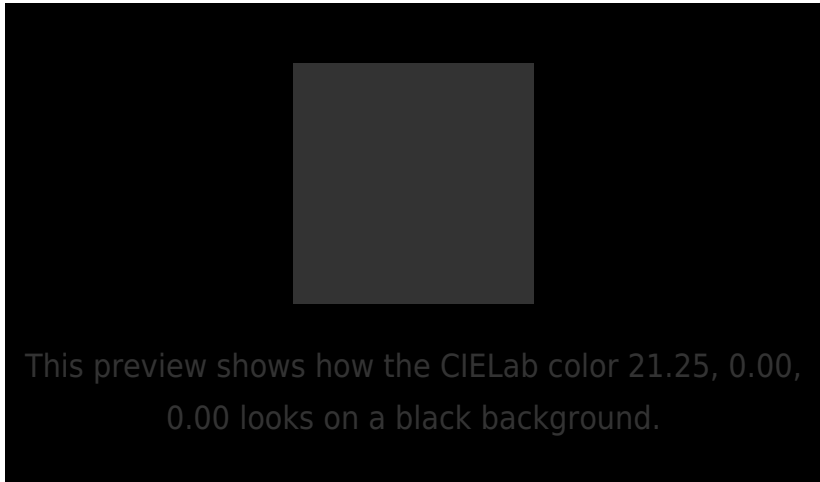
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

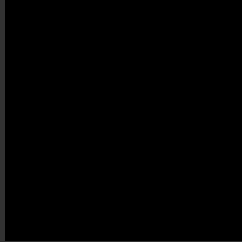
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

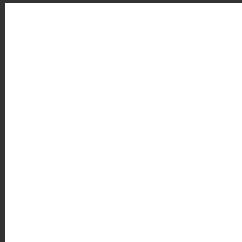
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELab 21.25, 0.00, 0.00

Background



This preview shows how black text looks on a background with the CIELab color 21.25, 0.00, 0.00.

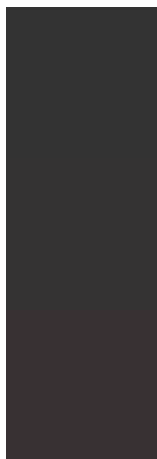


This preview shows how white text looks on a background with the CIELab color 21.25, 0.00, 0.00.

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

21.25, 0.00, -0.00

Protanopia

21.34, 0.44, 0.15

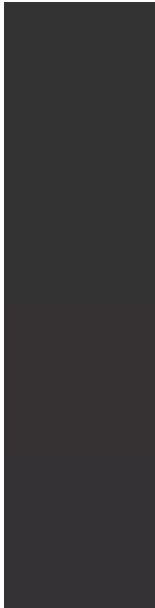
Deuteranopia

21.12, 3.56, -0.13



Tritanopia
21.12, 1.82, -2.22

Trichromacy



Original Color

21.25, 0.00, -0.00

Protanomaly

21.34, 0.44, 0.15

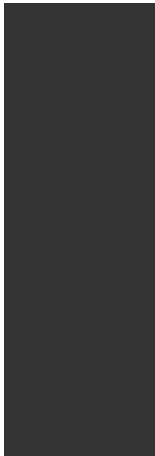
Deuteranomaly

21.22, 2.00, 0.00

Tritanomaly

21.09, 1.58, -1.59

Monochromacy



Original Color

21.25, 0.00, -0.00

Achromatopsia

21.25, 0.00, -0.00

Achromatomaly

21.25, 0.00, -0.00

CSS Examples

Text

The CSS property to change the color of the text to CIE Lab 21.25, 0.00, 0.00 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(51, 51, 51)` looks like.

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

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

Border

The CSS property to change the border of an element to CIE Lab 21.25, 0.00, 0.00 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(51, 51, 51) }
```

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

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

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

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

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

Background

The CSS property to change the background color of an element to CIE Lab 21.25, 0.00, 0.00 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(51, 51,  
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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