

# Converting Colors

XYZ(21.8432, 13.5720, 1.4684)

Have a look what the booklet for  
XYZ(21.8432, 13.5720, 1.4684)  
contains.

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# Color

**XYZ(21.8137, 13.5670,  
1.4690)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BA3B00
RGB	186, 59, 0
RGB Percent	73%, 23%, 0%
CMY	0.2706, 0.7686, 1.0000
CMYK	0.00, 0.68, 1.00, 0.27
HSL	19°, 100%, 36%
HSV	19°, 100%, 73%
XYZ	21.8137, 13.5670, 1.4690
YIQ	90.2470, 94.6310, 8.5750

# Conversions

## Conversions Part 2

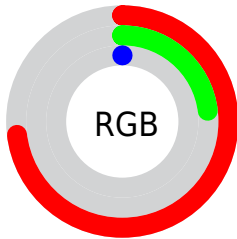
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	186, 86, 0
Decimal	12204800
CIE Lab	43.61, 49.21, 55.16
CIE LCh	44, 73.915, 48.263
Yxy	13.5670, 0.5920, 0.3682
Android (android.graphics.Color)	4290394880 (0xFFBA3B00)
YUV	90.2470, -44.4918, 83.9754
Hunter-Lab	36.8334, 41.2539, 23.4188

# Details

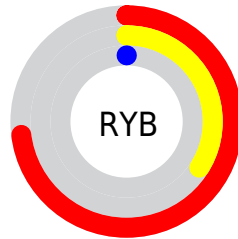
The XYZ color **21.8137, 13.5670, 1.4690** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **16.4516, 18.7225, 49.2009**, and the grayscale version is **9.8565, 10.3698, 11.2927**.

A 20% lighter version of the original color is **46.0433, 32.4198, 7.5723**, and **8.3122, 4.2851, 0.3890** is the 20% darker color. If you saturate the color by 10%, you get **21.8139, 13.5676, 1.4691**, and if you desaturate by 10%, it is **22.6623, 15.0817, 2.3151**.

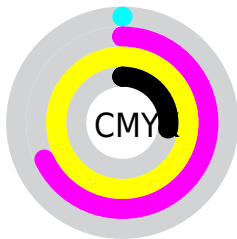
# Distribution



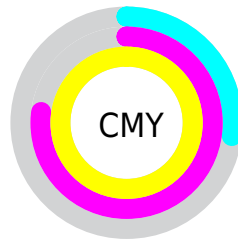
- Red (73%)
- Green (23%)
- Blue (0%)



- Red (73%)
- Yellow (34%)
- Blue (0%)



- Cyan (0%)
- Magenta (68%)
- Yellow (100%)
- Black (27%)




- Cyan (27%)
- Magenta (77%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 21.8137, 13.5670, 1.4690 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 XYZ color 21.8137, 13.5670, 1.4690 by changing the saturation by 10% instead.





 21.8137, 13.5670,  
1.4690


 21.8137, 13.5670,  
1.4690


 254.2225,  
214.5202, 113.4944


 13.8359, 7.8201,  
0.1947


 45.9190, 32.3187,  
7.5304


 8.0876, 3.9801,  
0.0000


 62.7773, 46.0924,  
13.3411

 4.2033, 1.6624,  
0.0000

 83.3264, 63.3104,  
21.5633

 1.8178, 0.3991,  
0.0000

 107.9318, 84.3573,  
32.6154

 0.5284, 0.0000,  
0.0000


 136.9587,  
109.6172, 46.9161


 0.0000, 0.0000,  
0.0000


 170.7726,


139.4748, 64.8837


 209.7387,  
174.3143, 86.9370


 21.8137, 13.5670,  
1.4690


 21.8137, 13.5670,  
1.4690


 21.8139, 13.5676,  
1.4691

 22.6623, 15.0817,  
2.3151

 23.7887, 16.9779,  
3.7903

 25.2431, 19.2916,  
6.1093

 27.0542, 22.0488,  
9.3799

 29.2472, 25.2728,  
13.6932

■ 31.8446, 28.9850,  
19.1298

■ 34.8673, 33.2057,  
25.7621

■ 38.3342, 37.9538,  
33.6566

■ 42.2635, 43.2472,  
42.8746

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



26.6144, 13.5670, 6.8657



21.8137, 13.5670, 1.4690



15.2941, 13.5670, 0.1966

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



21.8137, 13.5670, 1.4690



4.7794, 13.5670, 9.1907



16.7067, 13.5670, 70.4214

# Complementary

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



21.8137, 13.5670, 1.4690



16.4516, 18.7225, 49.2009

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



10.7610, 13.5670, 73.1151



21.8137, 13.5670, 1.4690



4.9506, 13.5670, 27.1814

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



21.8137, 13.5670, 1.4690



6.2454, 13.5670, 2.0914



6.8144, 13.5670, 53.6061



23.1105, 13.5670, 47.7726



# Rectangle

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



21.8137, 13.5670, 1.4690



11.3607, 13.5670, 0.1422



6.8144, 13.5670, 53.6061



14.5616, 13.5670, 74.0940

# Sweetspot

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



21.8140, 13.5678, 1.4692



62.9077, 59.7844, 46.0437



24.0870, 11.9740, 21.1548



13.3245, 12.4307, 8.9681



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



21.8140, 13.5678, 1.4692



39.3473, 24.2084, 2.5989



31.4617, 32.8631, 4.6851



9.2309, 9.4648, 9.4473



14.7362, 9.2488, 1.0085



0.5768, 0.4408, 0.0547



# Inverse Universe

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



16.4516, 18.7225, 49.2009



29.5919, 33.4804, 89.1041



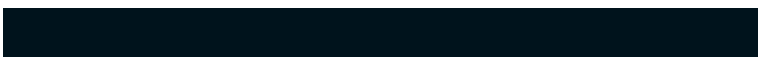
9.4379, 4.6951, 46.8630



9.0199, 9.7171, 11.4796



11.1378, 12.7352, 33.1242



0.4456, 0.5550, 1.1854



# Previews

## White Background



This preview shows how the XYZ color 21.8137, 13.5670, 1.4690 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 XYZ color 21.8137, 13.5670, 1.4690 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](#).

**XYZ 21.8137, 13.5670, 1.4690**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.8137, 13.5670, 1.4690.



This preview shows how white text looks on a background with the XYZ color 21.8137, 13.5670,



# 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

21.8137, 13.5670, 1.4690

### Protanopia

12.4127, 13.7330, 2.6583

### Deuteranopia

13.8219, 13.7490, 1.9253



## Tritanopia

22.6234, 13.6027, 5.4362

# Trichromacy



## Original Color

21.8137, 13.5670, 1.4690

## Protanomaly

14.7177, 12.7593, 2.0679

## Deuteranomaly

15.9328, 12.9200, 1.6540

## Tritanomaly

22.2416, 13.5267, 3.1889

# Monochromacy



## Original Color

21.8137, 13.5670, 1.4690

## Achromatopsia

9.7181, 10.2242, 11.1341

## Achromatomaly

11.9919, 10.2473, 5.2168

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.8137, 13.5670, 1.4690 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(186, 59, 0)` looks like.

```
.text, #text, p{  
    color:rgb(186, 59, 0)  
}
```

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(186, 59, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 59, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.8137, 13.5670, 1.4690 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(186, 59, 0) }
```



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

```
.border{ border-color:rgb(186, 59, 0) }
```

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

Here you see how a box with a 4 pixel rgb(186, 59, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 59, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 59, 0);  
box-shadow:4px 4px 4px 4px rgb(186, 59, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 21.8137, 13.5670, 1.4690 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 59, 0) }
```

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

```
.background{ background-color: rgb(186, 59,  
0) }
```

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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