

# Converting Colors

XYZ(18.2014, 10.3239, 2.2270)

Have a look what the booklet for  
XYZ(18.2014, 10.3239, 2.2270)  
contains.

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# Color

**XYZ(18.1169, 10.2961,  
2.1949)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AD251D
RGB	173, 37, 29
RGB Percent	68%, 15%, 11%
CMY	0.3216, 0.8549, 0.8863
CMYK	0.00, 0.79, 0.83, 0.32
HSL	3°, 71%, 40%
HSV	3°, 83%, 68%
XYZ	18.1169, 10.2961, 2.1949
YIQ	76.7520, 83.6240, 26.3440

# Conversions

## Conversions Part 2

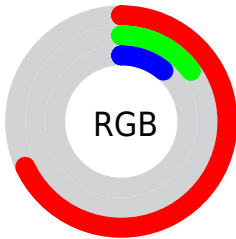
<b>Format</b>	<b>Color</b>
<b>RYB</b>	173, 37, 29
Decimal	11347229
CIELab	38.37, 53.40, 39.31
CIElCh	38, 66.311, 36.355
Yxy	10.2961, 0.5919, 0.3364
Android (android.graphics.Color)	4289537309 (0xFFAD251D)
YUV	76.7520, -23.5417, 84.4095
Hunter-Lab	32.0875, 44.6295, 18.4056

# Details

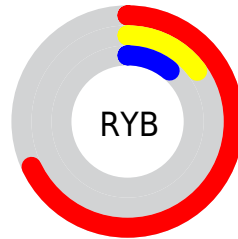
The XYZ color **18.1169, 10.2961, 2.1949** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **21.5025, 30.1844, 44.2276**, and the grayscale version is **7.0404, 7.4070, 8.0663**.

A 20% lighter version of the original color is **39.8648, 26.3463, 9.6408**, and **6.6821, 3.4447, 0.3127** is the 20% darker color. If you saturate the color by 10%, you get **17.5602, 9.4344, 1.2338**, and if you desaturate by 10%, it is **19.0216, 11.6620, 3.8644**.

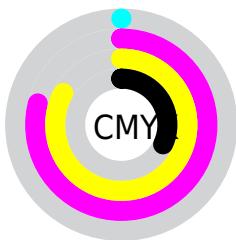
# Distribution



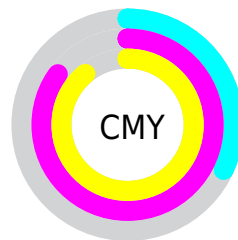
- Red (68%)
- Green (15%)
- Blue (11%)



- Red (68%)
- Yellow (15%)
- Blue (11%)



- Cyan (0%)
- Magenta (79%)
- Yellow (83%)
- Black (32%)




- Cyan (32%)
- Magenta (85%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.1169, 10.2961, 2.1949 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 18.1169, 10.2961, 2.1949 by changing the saturation by 10% instead.





 18.1169, 10.2961,  
2.1949

 18.1169, 10.2961,  
2.1949


234.5620,  
192.7725, 125.3333


 11.1341, 5.5957,  
0.6714


 39.7649, 26.3510,  
9.5671


 6.2251, 2.6008,  
0.0000


 55.1609, 38.4742,  
16.2816


 3.0244, 0.9271,  
0.0000

 74.0921, 53.8406,  
25.5730

 1.1667, 0.0000,  
0.0000

 96.9237, 72.8344,  
37.8599

 0.0798, 0.0000,  
0.0000


 124.0211, 95.8402,  
53.5608


 0.0000, 0.0000,  
0.0000


 155.7497,


123.2421, 73.0944

 192.4749,  
155.4248, 96.8790


 18.1169, 10.2961,  
2.1949


 18.1169, 10.2961,  
2.1949


 17.5602, 9.4344,  
1.2338


 19.0216, 11.6620,  
3.8644

 17.3379, 9.0931,  
0.8413

 20.3181, 13.5910,  
6.3436

 22.0446, 16.1362,  
9.7178

 24.2345, 19.3438,  
14.0614

 26.9179, 23.2557,  
19.4412

■ 30.1224, 27.9103,  
25.9177

■ 33.8735, 33.3433,  
33.5472

■ 38.1950, 39.5880,  
42.3817

■ 43.1095, 46.6758,  
52.4704

# Harmonies

## Analogous

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



20.5818, 10.2961, 8.7782



18.1169, 10.2961, 2.1949



13.5104, 10.2961, 0.3782

# Triad

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



18.1169, 10.2961, 2.1949



3.9784, 10.2961, 4.1199



10.7347, 10.2961, 55.3753

# Complementary

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



18.1169, 10.2961, 2.1949



21.5025, 30.1844, 44.2276

# 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.



6.8181, 10.2961, 50.1778



18.1169, 10.2961, 2.1949



3.6341, 10.2961, 14.0556

# Square

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



18.1169, 10.2961, 2.1949



5.6416, 10.2961, 0.8913



4.5046, 10.2961, 32.0542



15.5827, 10.2961, 43.3603



# Rectangle

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



18.1169, 10.2961, 2.1949



10.3239, 10.2961, 0.0000



4.5046, 10.2961, 32.0542



9.2674, 10.2961, 55.6601

# Sweetspot

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



18.1171, 10.2967, 2.1950



52.6030, 48.0347, 43.6916



24.5373, 12.5087, 37.1011



11.0011, 9.8136, 8.6241



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



18.1171, 10.2967, 2.1950



31.0020, 16.1861, 1.4902



22.8389, 19.7402, 3.7690



8.0397, 8.0842, 8.3500



12.7515, 6.7085, 0.6228



0.3661, 0.2093, 0.0211

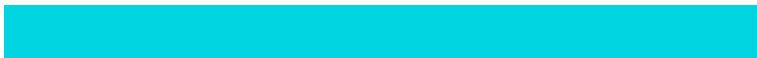


# Inverse Universe

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



21.5025, 30.1844, 44.2276



37.0314, 52.4487, 78.9776



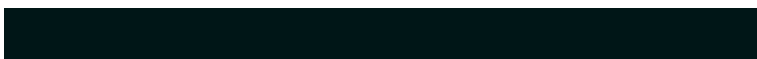
12.0344, 11.2482, 41.0716



8.1976, 8.9946, 10.2568



15.2263, 21.5864, 32.4086



0.4349, 0.6231, 0.9053



# Previews

## White Background



This preview shows how the XYZ color 18.1169, 10.2961, 2.1949 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



## 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 18.1169, 10.2961, 2.1949**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.1169, 10.2961, 2.1949.



This preview shows how white text looks on a background with the XYZ color 18.1169, 10.2961,



# 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

18.1169, 10.2961, 2.1949

### Protanopia

9.7427, 10.6535, 3.8283

### Deuteranopia

10.6770, 10.5559, 1.8226



## Tritanopia

18.1829, 10.2734, 2.6937

# Trichromacy



## Original Color

18.1169, 10.2961, 2.1949

## Protanomaly

11.5693, 9.3639, 3.0314

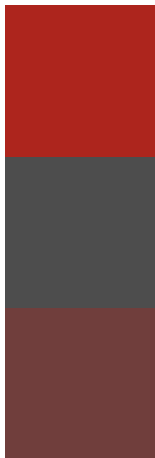
## Deuteranomaly

12.5538, 9.6183, 1.7671

## Tritanomaly

18.1390, 10.2558, 2.4624

# Monochromacy



## Original Color

18.1169, 10.2961, 2.1949

## Achromatopsia

7.0540, 7.4214, 8.0819

## Achromatomaly

9.2203, 7.2162, 5.1819

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.1169, 10.2961, 2.1949 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(173, 37, 29)` looks like.

```
.text, #text, p{  
    color:rgb(173, 37, 29)  
}
```

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(173, 37, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 37, 29) }
```

## Border

The CSS property to change the border of an element to XYZ 18.1169, 10.2961, 2.1949 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(173, 37, 29) }
```



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

```
.border{ border-color:rgb(173, 37, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(173, 37, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 37, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 37, 29);  
box-shadow:4px 4px 4px 4px rgb(173, 37,  
29) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.1169, 10.2961, 2.1949 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 37, 29) }
```

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

```
.background{ background-color: rgb(173, 37,  
29) }
```

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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