

# Converting Colors

XYZ(36.7750, 18.9500, 2.0924)

Have a look what the booklet for  
XYZ(36.7750, 18.9500, 2.0924)  
contains.

<b>XYZ(36.6906, 18.9063, 2.0962)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(36.6906, 18.9063,  
2.0962)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2000D
RGB	242, 0, 13
RGB Percent	95%, 0%, 5%
CMY	0.0510, 0.9998, 0.9490
CMYK	0.00, 1.00, 0.95, 0.05
HSL	357°, 100%, 47%
HSV	357°, 100%, 95%
XYZ	36.6906, 18.9063, 2.0962
YIQ	73.8400, 140.0590, 55.3470

# Conversions

## Conversions Part 2

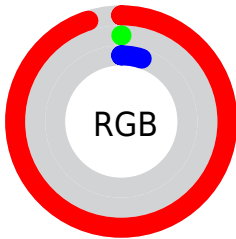
Format	Color
<a href="#">RYB</a>	242, 0, 13
Decimal	15859725
CIELab	50.58, 77.09, 61.19
CIElCh	51, 98.421, 38.439
Yxy	18.9063, 0.6360, 0.3277
Android (android.graphics.Color)	4294049805 (0xFFFF2000D)
YUV	73.8400, -29.9941, 147.4763
Hunter-Lab	43.4814, 74.5301, 27.5786

# Details

The XYZ color **36.6906, 18.9063, 2.0962** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **45.9042, 69.1648, 85.1050**, and the grayscale version is **6.5207, 6.8603, 7.4709**.

A 20% lighter version of the original color is **46.1968, 29.6471, 8.2886**, and **17.6792, 9.1140, 0.8274** is the 20% darker color. If you saturate the color by 10%, you get **36.6899, 18.9060, 2.0942**, and if you desaturate by 10%, it is **37.2667, 19.6681, 3.4937**.

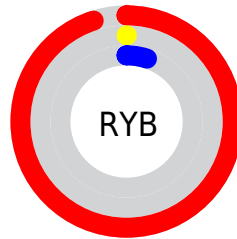
# Distribution



Red (95%)

Green (0%)

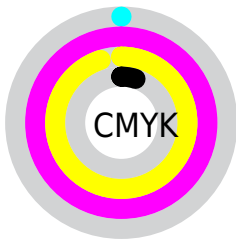
Blue (5%)



Red (95%)

Yellow (0%)

Blue (5%)

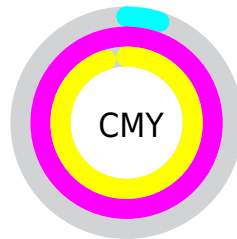


Cyan (0%)

Magenta (100%)

Yellow (95%)

Black (5%)



Cyan (5%)

Magenta (100%)


Yellow (95%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.6906, 18.9063, 2.0962 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 36.6906, 18.9063, 2.0962 by changing the saturation by 10% instead.




 36.6906, 18.9063,  
2.0962

 36.6906, 18.9063,  
2.0962


323.3479,  
245.9310, 123.8531


 25.1406, 11.6026,  
0.6135


 69.4136, 41.5757,  
9.3022

 16.3111, 6.4737,  
0.0000


 91.3173, 57.7102,  
15.9033


 9.8368, 3.1352,  
0.0000


 117.4030, 77.5571,  
25.0614

 5.3523, 1.2027,  
0.0000

 148.0359,  
101.5007, 37.1948

 2.4923, 0.0639,  
0.0000

 183.5815,  
129.9255, 52.7221

 0.8914, 0.0000,  
0.0000


 224.4052,


 0.0000, 0.0000,


163.2159, 72.0619


0.0000


 270.8722,  
201.7563, 95.6328


 36.6906, 18.9063,  
2.0962


 36.6906, 18.9063,  
2.0962


 36.6899, 18.9060,  
2.0942

 37.2667, 19.6681,  
3.4937

 38.4782, 21.3429,  
6.2037

 40.4904, 24.2029,  
10.4639

 43.4101, 28.4133,  
16.4597

 47.3280, 34.1132,  
24.3500

■ 52.3233, 41.4242,  
34.2761

■ 58.4677, 50.4557,  
46.3657

■ 65.8263, 61.3072,  
60.7361

■ 74.4596, 74.0709,  
77.4960

# Harmonies

## Analogous

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



43.1649, 18.9063, 13.7519



36.6906, 18.9063, 2.0962



25.6569, 18.9063, 0.0000

# Triad

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



36.6906, 18.9063, 2.0962



5.6762, 18.9063, 6.6139



20.8220, 18.9063, 129.9456

# Complementary

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



36.6906, 18.9063, 2.0962



45.9042, 69.1648, 85.1050

# 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.



11.9956, 18.9063, 119.5388



36.6906, 18.9063, 2.0962



5.1839, 18.9063, 29.3750

# Square

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



36.6906, 18.9063, 2.0962



8.7522, 18.9063, 0.7070



7.0299, 18.9063, 74.1684



32.0889, 18.9063, 96.1509



# Rectangle

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



36.6906, 18.9063, 2.0962



18.4784, 18.9063, 0.0000



7.0299, 18.9063, 74.1684



17.4708, 18.9063, 131.8457

# Sweetspot

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



36.6910, 18.9075, 2.0964



65.7648, 56.7020, 52.0551



47.3509, 22.5599, 85.8626



13.4166, 11.1659, 9.8468



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



36.6910, 18.9075, 2.0964



41.3168, 21.2907, 2.3345



41.6596, 28.9604, 3.3960



15.8071, 15.7725, 16.5402



19.7253, 10.1625, 1.2038



1.6529, 0.8502, 0.1631



# Inverse Universe

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



36.6910, 18.9075, 2.0964



41.3168, 21.2907, 2.3345



24.9961, 24.3480, 87.3860



15.8071, 15.7725, 16.5402



19.7253, 10.1625, 1.2038



1.6529, 0.8502, 0.1631



# Previews

## White Background



This preview shows how the XYZ color 36.6906, 18.9063, 2.0962 looks on a white 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



# Black Background



This preview shows how the XYZ color 36.6906, 18.9063, 2.0962 looks on a black 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

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

**XYZ 36.6906, 18.9063, 2.0962**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.6906, 18.9063, 2.0962.



This preview shows how white text looks on a background with the XYZ color 36.6906, 18.9063,



# 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

36.6906, 18.9063, 2.0962

### Protanopia

17.5945, 19.3648, 4.4795

### Deuteranopia

19.5718, 19.3608, 2.7055



## Tritanopia

36.2221, 19.0991, 1.7774

# Trichromacy



## Original Color

36.6906, 18.9063, 2.0962

## Protanomaly

20.6132, 14.6466, 2.8392

## Deuteranomaly

22.7259, 15.3476, 1.9082

## Tritanomaly

36.4601, 19.0258, 1.8943

# Monochromacy



## Original Color

36.6906, 18.9063, 2.0962

## Achromatopsia

6.5089, 6.8478, 7.4573

## Achromatomaly

11.6280, 7.4319, 4.0704

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.6906, 18.9063, 2.0962 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(242, 0, 13)` looks like.

```
.text, #text, p{  
    color:rgb(242, 0, 13)  
}
```

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(242, 0, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 13) }
```

## Border

The CSS property to change the border of an element to XYZ 36.6906, 18.9063, 2.0962 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(242, 0, 13) }
```



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

```
.border{ border-color:rgb(242, 0, 13) }
```

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

Here you see how a box with a 4 pixel rgb(242, 0, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 13);  
box-shadow:4px 4px 4px 4px rgb(242, 0, 13)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 36.6906, 18.9063, 2.0962 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 0, 13) }
```

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

```
.background{ background-color: rgb(242, 0,  
13) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor