

# Converting Colors

XYZ(36.9651, 19.0260, 3.0936)

Have a look what the booklet for  
XYZ(36.9651, 19.0260, 3.0936)  
contains.

<b>XYZ(36.8787, 18.9815, 3.0866)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(36.8787, 18.9815,  
3.0866)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F20020
RGB	242, 0, 32
RGB Percent	95%, 0%, 13%
CMY	0.0510, 0.9998, 0.8745
CMYK	0.00, 1.00, 0.87, 0.05
HSL	352°, 100%, 47%
HSV	352°, 100%, 95%
XYZ	36.8787, 18.9815, 3.0866
YIQ	76.0060, 133.9600, 61.2560

# Conversions

## Conversions Part 2

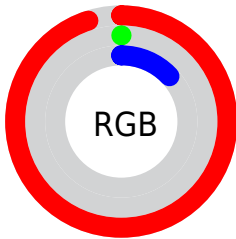
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 0, 32
Decimal	15859744
CIE <sub>Lab</sub>	50.67, 77.33, 53.96
CIE <sub>LCh</sub>	51, 94.296, 34.906
Yxy	18.9815, 0.6256, 0.3220
Android (android.graphics.Color)	4294049824 (0xFFFF20020)
YUV	76.0060, -21.6950, 145.5767
Hunter-Lab	43.5678, 74.8509, 26.2970

# Details

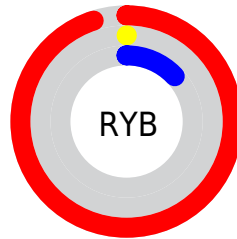
The XYZ color **36.8787, 18.9815, 3.0866** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark saturated red. A complement of this color would be **43.3928, 68.1603, 71.8801**, and the grayscale version is **6.8979, 7.2571, 7.9030**.

A 20% lighter version of the original color is **46.6540, 29.8299, 10.6959**, and **17.9045, 9.2301, 0.8379** is the 20% darker color. If you saturate the color by 10%, you get **36.8777, 18.9811, 3.0829**, and if you desaturate by 10%, it is **37.5925, 19.7983, 5.2090**.

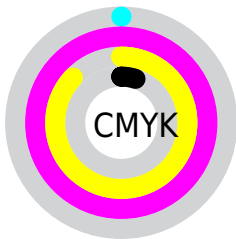
# Distribution



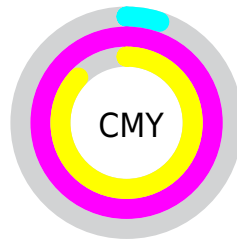
- Red (95%)
- Green (0%)
- Blue (13%)



- Red (95%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (87%)
- Black (5%)




- Cyan (5%)
- Magenta (100%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8787, 18.9815, 3.0866 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 36.8787, 18.9815, 3.0866 by changing the saturation by 10% instead.




 36.8787, 18.9815,  
3.0866


 36.8787, 18.9815,  
3.0866


324.1497,  
246.3466, 137.4561


 25.2868, 11.6569,  
1.1390


 69.7012, 41.7028,  
11.8414


 16.4208, 6.5105,  
0.0000


 91.6626, 57.8684,  
19.4857


 9.9151, 3.1579,  
0.0000


 117.8112, 77.7497,  
29.8660

 5.4045, 1.2147,  
0.0000

 148.5123,  
101.7312, 43.4008

 2.5237, 0.0737,  
0.0000

 184.1314,  
130.1972, 60.5086


 0.9072, 0.0000,  
0.0000


 225.0338,


 0.0000, 0.0000,


163.5322, 81.6081


0.0000


 271.5847,  
202.1205, 107.1177


 36.8787, 18.9815,  
3.0866


 36.8787, 18.9815,  
3.0866


 36.8777, 18.9811,  
3.0829

 37.5925, 19.7983,  
5.2090

 38.9300, 21.5234,  
8.5831

 41.0443, 24.4241,  
13.3814

 44.0331, 28.6621,  
19.7410

 47.9796, 34.3733,  
27.7826

■ 52.9571, 41.6770,  
37.6152

■ 59.0317, 50.6805,  
49.3380

■ 66.2640, 61.4813,  
63.0435

■ 74.7100, 74.1699,  
78.8176

# Harmonies

## Analogous

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



42.1537, 18.9815, 16.6159



36.8787, 18.9815, 3.0866



26.6710, 18.9815, 0.1370

# Triad

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



36.8787, 18.9815, 3.0866



6.2633, 18.9815, 5.7301



19.6032, 18.9815, 124.0592

# Complementary

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



36.8787, 18.9815, 3.0866



43.3928, 68.1603, 71.8801

# 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.



11.5084, 18.9815, 109.4323



36.8787, 18.9815, 3.0866



5.5005, 18.9815, 25.3296

# Square

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



36.8787, 18.9815, 3.0866



9.6670, 18.9815, 0.7007



7.0438, 18.9815, 65.5769



30.2326, 18.9815, 96.7431



# Rectangle

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



36.8787, 18.9815, 3.0866



19.6649, 18.9815, 0.0000



7.0438, 18.9815, 65.5769



16.5097, 18.9815, 124.0109

# Sweetspot

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



36.8791, 18.9827, 3.0869



66.4020, 56.9569, 55.4106



42.5322, 20.0757, 85.6372



13.5617, 11.2239, 10.6104



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.



36.8791, 18.9827, 3.0869



41.5239, 21.3736, 3.4251



40.1714, 25.9840, 2.8999



15.8577, 15.7928, 16.8071



19.8388, 10.2080, 1.8020



1.6771, 0.8599, 0.2903



# Inverse Universe

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



36.8791, 18.9827, 3.0869



41.5239, 21.3736, 3.4251



27.4661, 29.2881, 88.2094



15.8577, 15.7928, 16.8071



19.8388, 10.2080, 1.8020



1.6771, 0.8599, 0.2903



# Previews

## White Background



This preview shows how the XYZ color 36.8787, 18.9815, 3.0866 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 36.8787, 18.9815, 3.0866 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 36.8787, 18.9815, 3.0866**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.8787, 18.9815, 3.0866.



This preview shows how white text looks on a background with the XYZ color 36.8787, 18.9815,



# 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

36.8787, 18.9815, 3.0866

### Protanopia

17.7787, 19.4196, 6.3014

### Deuteranopia

19.5718, 19.3608, 2.7055



## Tritanopia

36.5625, 19.2746, 1.7933

# Trichromacy



## Original Color

36.8787, 18.9815, 3.0866



## Protanomaly

20.8967, 14.7600, 4.3324



## Deuteranomaly

22.7648, 15.3632, 2.1134



## Tritanomaly

36.4990, 19.0414, 2.0995

# Monochromacy



## Original Color

36.8787, 18.9815, 3.0866



## Achromatopsia

6.8694, 7.2272, 7.8704



## Achromatomaly

12.0259, 7.6744, 5.1224

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8787, 18.9815, 3.0866 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, 32)` looks like.

```
.text, #text, p{  
  color:rgb(242, 0, 32)  
}
```

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, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 0, 32) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8787, 18.9815, 3.0866 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, 32) }
```



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

```
.border{ border-color:rgb(242, 0, 32) }
```

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, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 0, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 0, 32);  
box-shadow:4px 4px 4px 4px rgb(242, 0, 32)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 36.8787, 18.9815, 3.0866 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, 32) }
```

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

```
.background{ background-color: rgb(242, 0,  
32) }
```

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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