

# Converting Colors

XYZ(37.7629, 19.5703, 6.6004)

Have a look what the booklet for  
XYZ(37.7629, 19.5703, 6.6004)  
contains.

<b>XYZ(37.6873, 19.5353, 6.6348)</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(37.6873, 19.5353,  
6.6348)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F20D40
RGB	242, 13, 64
RGB Percent	95%, 5%, 25%
CMY	0.0510, 0.9488, 0.7490
CMYK	0.00, 0.95, 0.74, 0.05
HSL	347°, 90%, 50%
HSV	347°, 95%, 95%
XYZ	37.6873, 19.5353, 6.6348
YIQ	87.2850, 120.1130, 64.4090

# Conversions

## Conversions Part 2

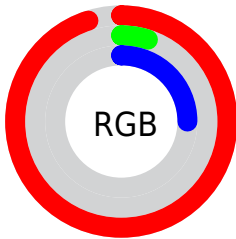
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 13, 64
Decimal	15863104
CIE Lab	51.31, 77.21, 37.35
CIE LCh	51, 85.768, 25.813
Yxy	19.5353, 0.5902, 0.3059
Android (android.graphics.Color)	4294053184 (0xFFFF20D40)
YUV	87.2850, -11.4795, 135.6851
Hunter-Lab	44.1988, 74.8552, 22.0389

# Details

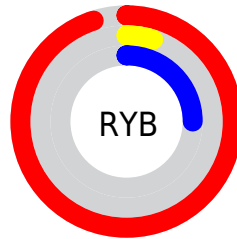
The XYZ color **37.6873, 19.5353, 6.6348** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **41.3286, 67.3538, 60.1437**, and the grayscale version is **9.1328, 9.6084, 10.4635**.

A 20% lighter version of the original color is **48.4393, 30.9792, 18.7558**, and **18.2763, 9.4050, 1.6111** is the 20% darker color. If you saturate the color by 10%, you get **37.2800, 19.1421, 5.2015**, and if you desaturate by 10%, it is **38.8414, 20.8378, 10.1212**.

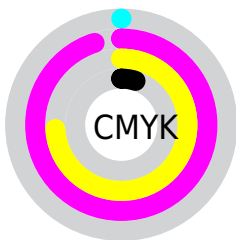
# Distribution



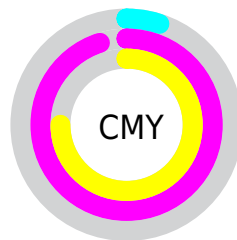
- Red (95%)
- Green (5%)
- Blue (25%)



- Red (95%)
- Yellow (5%)
- Blue (25%)



- Cyan (0%)
- Magenta (95%)
- Yellow (74%)
- Black (5%)




- Cyan (5%)
- Magenta (95%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6873, 19.5353, 6.6348 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 37.6873, 19.5353, 6.6348 by changing the saturation by 10% instead.




 37.6873, 19.5353,  
6.6348


 37.6873, 19.5353,  
6.6348


327.5808,  
249.3882, 174.1079


 25.9162, 12.0577,  
3.1598


 70.9356, 42.6367,  
19.7349


 16.8933, 6.7830,  
1.1768


 93.1435, 59.0293,  
30.1970

 10.2533, 3.3268,  
0.0000


 119.5610, 79.1623,  
43.8253

 5.6308, 1.3046,  
0.0000

 150.5536,  
103.4202, 61.0383

 2.6604, 0.1448,  
0.0000

 186.4864,  
132.1874, 82.2545

 0.9768, 0.0000,  
0.0000

 227.7250,

 0.0000, 0.0000,

165.8481, 107.8925

0.0000

274.6347,  
204.7870, 138.3708

■ 37.6873, 19.5353,  
6.6348

■ 37.6873, 19.5353,  
6.6348

■ 37.2800, 19.1421,  
5.2015

■ 38.8414, 20.8378,  
10.1212

■ 40.6908, 23.2153,  
14.8107

■ 43.3352, 26.8446,  
20.8087

■ 46.8571, 31.8693,  
28.2075

■ 51.3283, 38.4136,  
37.0907

■ 56.8128, 46.5876,  
47.5352

■ 63.3690, 56.4915,  
59.6124

■ 71.0509, 68.2170,  
73.3890

■ 79.9086, 81.8497,  
88.9283

# Harmonies

## Analogous

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



40.3094, 19.5353, 24.9035



37.6873, 19.5353, 6.6348



29.4430, 19.5353, 1.2486

# Triad

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



37.6873, 19.5353, 6.6348



8.0054, 19.5353, 4.2522



17.3911, 19.5353, 111.4945

# Complementary

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



37.6873, 19.5353, 6.6348



41.3286, 67.3538, 60.1437

# 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.



10.7666, 19.5353, 88.9939



37.6873, 19.5353, 6.6348



6.5106, 19.5353, 18.0095

# Square

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



37.6873, 19.5353, 6.6348



12.2807, 19.5353, 0.7866



7.3386, 19.5353, 49.1236



26.7007, 19.5353, 98.2382



# Rectangle

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



37.6873, 19.5353, 6.6348



22.9033, 19.5353, 0.3712



7.3386, 19.5353, 49.1236



14.8170, 19.5353, 107.5805

# Sweetspot

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



37.6877, 19.5365, 6.6351



68.6631, 59.5213, 62.2003



37.0535, 17.4651, 85.4220



14.0203, 11.7190, 12.0649



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.



37.6877, 19.5365, 6.6351



41.9721, 21.5529, 5.7853



39.1466, 23.8181, 2.9167



15.9168, 15.8164, 17.1181



20.0692, 10.3001, 3.0149



1.7058, 0.8714, 0.4418



# Inverse Universe

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



37.6877, 19.5365, 6.6351



41.9721, 21.5529, 5.7853



32.7069, 39.5231, 89.9087



15.9168, 15.8164, 17.1181



20.0692, 10.3001, 3.0149



1.7058, 0.8714, 0.4418



# Previews

## White Background



This preview shows how the XYZ color 37.6873, 19.5353, 6.6348 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 37.6873, 19.5353, 6.6348 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 37.6873, 19.5353, 6.6348**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6873, 19.5353, 6.6348.



This preview shows how white text looks on a background with the XYZ color 37.6873, 19.5353,



# 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

37.6873, 19.5353, 6.6348

### Protanopia

18.7100, 19.9160, 13.9244

### Deuteranopia

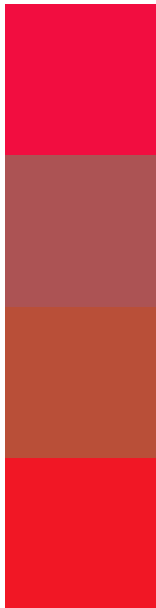
20.0957, 19.7339, 5.8818



## Tritanopia

36.8357, 19.5892, 2.5987

# Trichromacy



## Original Color

37.6873, 19.5353, 6.6348

## Protanomaly

21.7067, 15.5973, 10.2540

## Deuteranomaly

23.5174, 16.1918, 5.6272

## Tritanomaly

36.9160, 19.4471, 3.5582

# Monochromacy



## Original Color

37.6873, 19.5353, 6.6348

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

14.3548, 9.6359, 8.5005

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6873, 19.5353, 6.6348 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, 13, 64)` looks like.

```
.text, #text, p{  
    color:rgb(242, 13, 64)  
}
```

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, 13, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 13, 64) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6873, 19.5353, 6.6348 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, 13, 64) }
```



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

```
.border{ border-color:rgb(242, 13, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 13, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 13, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 13, 64);  
box-shadow:4px 4px 4px 4px rgb(242, 13,  
64) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6873, 19.5353, 6.6348 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 13, 64) }
```

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

```
.background{ background-color: rgb(242, 13,  
64) }
```

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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