

Converting Colors

XYZ(37.7228, 20.7821, 2.0231)

Have a look what the booklet for
XYZ(37.7228, 20.7821, 2.0231)
contains.

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Color

**XYZ(37.8628, 20.8561,
2.0300)**

Conversions

Conversions Part 1

Format	Color
Hex	F32C00
RGB	243, 44, 0
RGB Percent	95%, 17%, 0%
CMY	0.0471, 0.8274, 1.0000
CMYK	0.00, 0.82, 1.00, 0.05
HSL	11°, 100%, 48%
HSV	11°, 100%, 95%
XYZ	37.8628, 20.8561, 2.0300
YIQ	98.4850, 132.7280, 28.5040

Conversions

Conversions Part 2

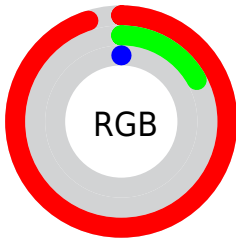
Format	Color
RYB	243, 54, 0
Decimal	15936512
CIELab	52.79, 71.38, 65.57
CIELCh	53, 96.930, 42.571
Yxy	20.8561, 0.6233, 0.3433
Android (android.graphics.Color)	4294126592 (0xFFFF32C00)
YUV	98.4850, -48.5531, 126.7397
Hunter-Lab	45.6685, 68.0709, 29.3324

Details

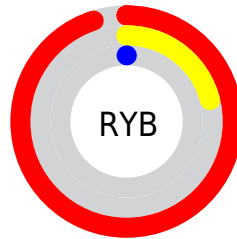
The XYZ color **37.8628, 20.8561, 2.0300** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **36.5961, 47.3082, 91.9957**, and the grayscale version is **11.8274, 12.4433, 13.5508**.

A 20% lighter version of the original color is **47.6315, 32.7381, 8.0836**, and **17.9045, 9.2301, 0.8379** is the 20% darker color. If you saturate the color by 10%, you get **37.8632, 20.8574, 2.0303**, and if you desaturate by 10%, it is **38.9586, 22.7793, 3.2241**.

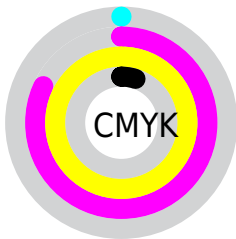
Distribution



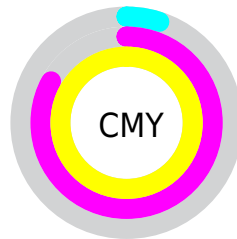
- Red (95%)
- Green (17%)
- Blue (0%)



- Red (95%)
- Yellow (21%)
- Blue (0%)



- Cyan (0%)
- Magenta (82%)
- Yellow (100%)
- Black (5%)





- Cyan (5%)
- Magenta (83%)
- Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 37.8628, 20.8561, 2.0300 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 37.8628, 20.8561, 2.0300 by changing the saturation by 10% instead.


 37.8628, 20.8561,
2.0300


 37.8628, 20.8561,
2.0300


 328.3221,
256.5128, 122.8409


 26.0530, 13.0189,
0.5736


 71.2031, 44.8479,
9.1227

 16.9961, 7.4415,
0.0000


 93.4642, 61.7713,
15.6464


 10.3270, 3.7397,
0.0000


 119.9397, 82.4922,
24.7132

 5.6802, 1.5291,
0.0000

 150.9952,
107.3949, 36.7415

 2.6904, 0.3091,
0.0000

 186.9957,
136.8640, 52.1498

 0.9923, 0.0000,
0.0000


 228.3068,


 0.0000, 0.0000,


171.2837, 71.3568


0.0000


 275.2938,
211.0385, 94.7810


 37.8628, 20.8561,
2.0300


 37.8628, 20.8561,
2.0300


 37.8632, 20.8574,
2.0303

 38.9586, 22.7793,
3.2241

 40.6639, 25.5851,
5.6569

 43.0827, 29.3774,
9.6857

 46.2880, 34.2396,
15.5276

 50.3430, 40.2457,
23.3653

■ 55.3043, 47.4631,
33.3591

■ 61.2236, 55.9539,
45.6532

■ 68.1485, 65.7757,
60.3789

■ 76.1233, 76.9829,
77.6579

Harmonies

Analogous

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



45.4951, 20.8561, 12.6185



37.8628, 20.8561, 2.0300



26.2346, 20.8561, 0.0000

Triad

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



37.8628, 20.8561, 2.0300



6.4587, 20.8561, 9.7817



24.3625, 20.8561, 131.9193

Complementary

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



37.8628, 20.8561, 2.0300



36.5961, 47.3082, 91.9957

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.



14.5518, 20.8561, 128.0119



37.8628, 20.8561, 2.0300



6.2589, 20.8561, 37.1100

Square

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



37.8628, 20.8561, 2.0300



9.3656, 20.8561, 1.4333



8.6765, 20.8561, 85.0351



36.0974, 20.8561, 93.3376

Rectangle

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



37.8628, 20.8561, 2.0300



18.9637, 20.8561, 0.0000



8.6765, 20.8561, 85.0351



20.7081, 20.8561, 136.0948

Sweetspot

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



37.8632, 20.8574, 2.0303



68.2546, 62.3513, 50.8208



47.6817, 23.3425, 58.1800



13.9839, 12.4516, 9.5694



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.



37.8632, 20.8574, 2.0303



42.2246, 23.2292, 2.2582



49.8820, 44.8950, 6.0366



16.7419, 16.9679, 17.1903



20.8503, 11.5861, 1.1374



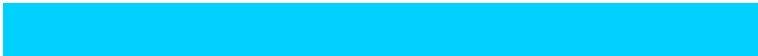
1.8984, 1.1500, 0.1219

Inverse Universe

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



36.5961, 47.3082, 91.9957



40.8029, 52.7257, 102.6343



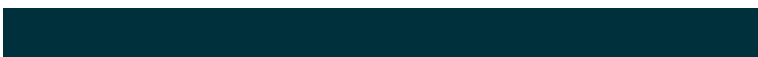
19.1200, 12.3559, 86.1704



16.7265, 18.2173, 21.1773



20.1768, 26.1473, 50.5215



1.8384, 2.4281, 4.4620

Previews

White Background



This preview shows how the XYZ color 37.8628, 20.8561, 2.0300 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 37.8628, 20.8561, 2.0300 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 37.8628, 20.8561, 2.0300

Background



This preview shows how black text looks on a background with the XYZ color 37.8628, 20.8561, 2.0300.



This preview shows how white text looks on a background with the XYZ color 37.8628, 20.8561,

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

37.8628, 20.8561, 2.0300

Protanopia

18.9665, 21.0182, 4.2197

Deuteranopia

21.2137, 20.9065, 2.9173



Tritanopia

38.1731, 20.8638, 4.0227

Trichromacy



Original Color

37.8628, 20.8561, 2.0300

Protanomaly

22.9743, 18.1768, 2.8699

Deuteranomaly

25.0624, 18.6014, 2.2695

Tritanomaly

38.0015, 20.8526, 2.9418

Monochromacy



Original Color

37.8628, 20.8561, 2.0300

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

16.3564, 12.3759, 6.0841

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.8628, 20.8561, 2.0300 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(243, 44, 0)` looks like.

```
.text, #text, p{  
    color:rgb(243, 44, 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(243, 44, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(243, 44, 0) }
```

Border

The CSS property to change the border of an element to XYZ 37.8628, 20.8561, 2.0300 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(243, 44, 0) }
```


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

```
.border{ border-color:rgb(243, 44, 0) }
```

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

Here you see how a box with a 4 pixel rgb(243, 44, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(243, 44, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(243, 44, 0);  
box-shadow:4px 4px 4px 4px rgb(243, 44, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 37.8628, 20.8561, 2.0300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(243, 44, 0) }
```

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

```
.background{ background-color: rgb(243, 44,  
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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