

Converting Colors

XYZ(40.2163, 20.7251, 2.2501)

Have a look what the booklet for
XYZ(40.2163, 20.7251, 2.2501)
contains.

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Color

**XYZ(40.2175, 20.7245,
2.2613)**

Conversions

Conversions Part 1

Format	Color
Hex	FC000D
RGB	252, 0, 13
RGB Percent	99%, 0%, 5%
CMY	0.0118, 0.9997, 0.9490
CMYK	0.00, 1.00, 0.95, 0.01
HSL	357°, 100%, 49%
HSV	357°, 100%, 99%
XYZ	40.2175, 20.7245, 2.2613
YIQ	76.8300, 146.0190, 57.4670

Conversions

Conversions Part 2

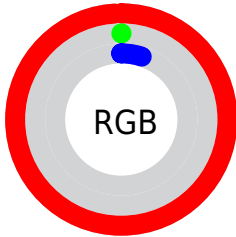
Format	Color
R_{YB}	252, 0, 13
Decimal	16515085
CIE Lab	52.65, 79.48, 63.38
CIE LCh	53, 101.659, 38.570
Yxy	20.7245, 0.6363, 0.3279
Android (android.graphics.Color)	4294705165 (0xFFFC000D)
YUV	76.8300, -31.4682, 153.6241
Hunter-Lab	45.5242, 78.0253, 28.9218

Details

The XYZ color **40.2175, 20.7245, 2.2613** 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 **50.4010, 75.8566, 93.6994**, and the grayscale version is **7.0672, 7.4353, 8.0970**.

A 20% lighter version of the original color is **46.3770, 30.0074, 8.3487**, and **20.0076, 10.3143, 0.9363** is the 20% darker color. If you saturate the color by 10%, you get **40.2167, 20.7241, 2.2591**, and if you desaturate by 10%, it is **40.8304, 21.5351, 3.7473**.

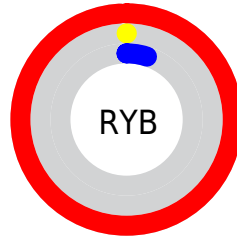
Distribution



Red (99%)

Green (0%)

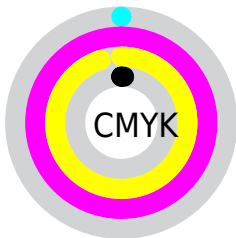
Blue (5%)



Red (99%)

Yellow (0%)

Blue (5%)

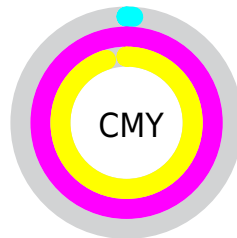


Cyan (0%)

Magenta (100%)

Yellow (95%)

Black (1%)



Cyan (1%)


Magenta (100%)


Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 40.2175, 20.7245, 2.2613 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 40.2175, 20.7245, 2.2613 by changing the saturation by 10% instead.

 40.2175, 20.7245,
2.2613


 40.2175, 20.7245,
2.2613

338.1582,
255.8107, 126.3107


 27.8931, 12.9228,
0.7094


 74.7768, 44.6286,
9.7436

 18.3852, 7.3754,
0.0000


 97.7425, 61.4997,
16.5329

 11.3282, 3.6980,
0.0000


 124.9860, 82.1628,
25.9123

 6.3570, 1.5061,
0.0000

 156.8727,
107.0021, 38.3005

 3.1060, 0.2930,
0.0000

 193.7679,
136.4022, 54.1158

 1.2101, 0.0000,
0.0000

 236.0369,


 0.1143, 0.0000,


170.7474, 73.7770


0.0000


 284.0453,
210.4221, 97.7024


 0.0000, 0.0000,
0.0000


 40.2175, 20.7245,
2.2613

 40.2175, 20.7245,
2.2613


 40.2167, 20.7241,
2.2591

 40.8304, 21.5351,
3.7473

 42.1426, 23.3518,
6.6748

 44.3349, 26.4702,
11.3088

 47.5258, 31.0734,
17.8558

 51.8157, 37.3153,
26.4932

■ 57.2926, 45.3305,
37.3781

■ 64.0356, 55.2397,
50.6524

■ 72.1169, 67.1530,
66.4465

■ 81.6035, 81.1721,
84.8814

Harmonies

Analogous

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



47.3672, 20.7245, 14.9623



40.2175, 20.7245, 2.2613



28.0860, 20.7245, 0.0000

Triad

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



40.2175, 20.7245, 2.2613



6.1987, 20.7245, 7.2906



22.8811, 20.7245, 142.7215

Complementary

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



40.2175, 20.7245, 2.2613



50.4010, 75.8566, 93.6994

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.



13.1723, 20.7245, 131.5014



40.2175, 20.7245, 2.2613



5.6700, 20.7245, 32.3868

Square

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



40.2175, 20.7245, 2.2613



9.5576, 20.7245, 0.7892



7.7065, 20.7245, 81.6971



35.2614, 20.7245, 105.3897

Rectangle

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



40.2175, 20.7245, 2.2613



20.2090, 20.7245, 0.0000



7.7065, 20.7245, 81.6971



19.1957, 20.7245, 144.8909

Sweetspot

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



40.2179, 20.7258, 2.2616



65.7477, 56.6952, 51.9655



51.8995, 24.7266, 94.1319



13.4128, 11.1644, 9.8265



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.



40.2179, 20.7258, 2.2616



41.3132, 21.2893, 2.3156



45.6391, 31.6838, 3.7122



17.2807, 17.2396, 18.0680



20.9650, 10.8017, 1.2581



1.9540, 1.0053, 0.1813

Inverse Universe

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



40.2179, 20.7258, 2.2616



41.3132, 21.2893, 2.3156



27.3683, 26.6225, 95.7908



17.2807, 17.2396, 18.0680



20.9650, 10.8017, 1.2581



1.9540, 1.0053, 0.1813

Previews

White Background



This preview shows how the XYZ color 40.2175, 20.7245, 2.2613 looks on a white background.

Color Contrast Check

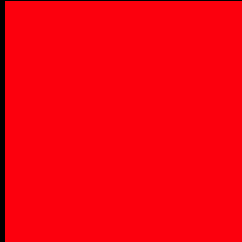
Large Text (above 18pt) WCAG AA ✓ Pass

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 40.2175, 20.7245, 2.2613 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 40.2175, 20.7245, 2.2613

Background



This preview shows how black text looks on a background with the XYZ color 40.2175, 20.7245, 2.2613.



This preview shows how white text looks on a background with the XYZ color 40.2175, 20.7245,

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

40.2175, 20.7245, 2.2613

Protanopia

19.2510, 21.1520, 4.8184

Deuteranopia

21.3346, 21.1483, 2.9576



Tritanopia

39.7307, 20.9368, 1.9472

Trichromacy



Original Color

40.2175, 20.7245, 2.2613



Protanomaly

22.6805, 16.0360, 2.9985



Deuteranomaly

24.6736, 16.6562, 2.0581



Tritanomaly

39.9819, 20.8618, 2.0630

Monochromacy



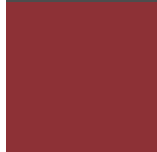
Original Color

40.2175, 20.7245, 2.2613



Achromatopsia

7.0540, 7.4214, 8.0819



Achromatomaly

12.7487, 8.1257, 4.3865

CSS Examples

Text

The CSS property to change the color of the text to XYZ 40.2175, 20.7245, 2.2613 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(252, 0, 13)` looks like.

```
.text, #text, p{  
    color:rgb(252, 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(252, 0, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 13) }
```

Border

The CSS property to change the border of an element to XYZ 40.2175, 20.7245, 2.2613 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(252, 0, 13) }
```


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

```
.border{ border-color:rgb(252, 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(252, 0, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 13);  
box-shadow:4px 4px 4px 4px rgb(252, 0, 13)  
}
```

Background

The CSS property to change the background color of an element to XYZ 40.2175, 20.7245, 2.2613 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 13) }
```

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

```
.background{ background-color: rgb(252, 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](#).

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