

# Converting Colors

XYZ(42.2979, 23.2303, 2.7312)

Have a look what the booklet for  
XYZ(42.2979, 23.2303, 2.7312)  
contains.

|  |    |
|--|----|
| <b>XYZ(42.3105, 23.2514, 2.7482)</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(42.3105, 23.2514,  
2.7482)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF2E10                      |
| RGB         | 255, 46, 16                 |
| RGB Percent | 100%, 18%, 6%               |
| CMY         | 0.0000, 0.8195, 0.9372      |
| CMYK        | 0.00, 0.82, 0.94, 0.00      |
| HSL         | 8°, 100%, 53%               |
| HSV         | 8°, 94%, 100%               |
| XYZ         | 42.3105, 23.2514, 2.7482    |
| YIQ         | 105.0710, 134.1940, 34.9780 |

# Conversions

## Conversions Part 2

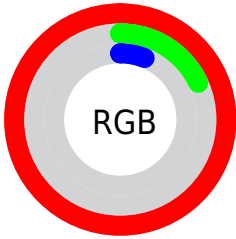
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>R<sub>YB</sub></b>               | 255, 50, 16                     |
| Decimal                             | 16723472                        |
| CIE Lab                             | 55.33, 74.32, 64.32             |
| CIE LCh                             | 55, 98.283, 40.875              |
| Yxy                                 | 23.2514, 0.6194,<br>0.3404      |
| Android<br>(android.graphics.Color) | 4294913552<br>(0xFFFF2E10)      |
| YUV                                 | 105.0710, -43.9120,<br>131.4877 |
| Hunter-Lab                          | 48.2197, 72.2408,<br>30.3747    |

# Details

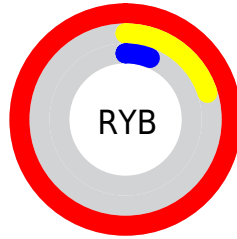
The XYZ color **42.3105, 23.2514, 2.7482** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **45.1835, 61.1700, 104.0325**, and the grayscale version is **13.5390, 14.2441, 15.5118**.

A 20% lighter version of the original color is **48.2193, 33.4999, 9.5549**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.7569, 22.2944, 2.1024**, and if you desaturate by 10%, it is **43.7351, 25.5963, 4.7796**.

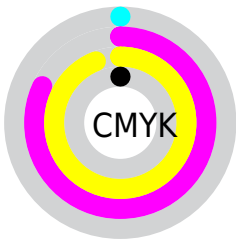
# Distribution



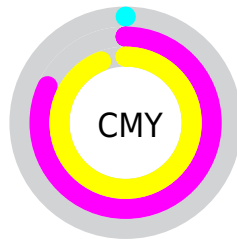
- Red (100%)
- Green (18%)
- Blue (6%)



- Red (100%)
- Yellow (20%)
- Blue (6%)



- Cyan (0%)
- Magenta (82%)
- Yellow (94%)
- Black (0%)




- Cyan (0%)
- Magenta (82%)
- Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3105, 23.2514, 2.7482 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 42.3105, 23.2514, 2.7482 by changing the saturation by 10% instead.





 42.3105, 23.2514,  
2.7482


 42.3105, 23.2514,  
2.7482

346.7382,  
269.0136, 133.0860


 29.5367, 14.7792,  
0.9675


 77.9316, 48.8058,  
11.0005


 19.6335, 8.6646,  
0.0000


 101.5095, 66.6568,  
18.3093

 12.2356, 4.5231,  
0.0000


 129.4195, 88.4030,  
28.2978

 6.9777, 1.9703,  
0.0000

 162.0270,  
114.4285, 41.3846

 3.4944, 0.5901,  
0.0000

 199.6972,  
145.1180, 57.9883


 1.4203, 0.0000,  
0.0000

 242.7956,


 0.2706, 0.0000,


180.8558, 78.5274


0.0000


 291.6875,  
222.0262, 103.4205


 0.0000, 0.0000,  
0.0000


 42.3105, 23.2514,  
2.7482


 42.3105, 23.2514,  
2.7482


 41.7569, 22.2944,  
2.1024

 43.7351, 25.5963,  
4.7796

 45.9611, 29.0816,  
8.5015

 49.0888, 33.8320,  
14.1837

 53.2030, 39.9543,  
22.0480

 58.3785, 47.5438,  
32.2864

64.6828, 56.6876,  
45.0697

72.1778, 67.4656,  
60.5529

80.9207, 79.9524,  
78.8787

90.9652, 94.2179,  
100.1797

# Harmonies

## Analogous

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



50.1297, 23.2514, 15.5056



42.3105, 23.2514, 2.7482



29.7961, 23.2514, 0.1775

# Triad

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



42.3105, 23.2514, 2.7482



7.5149, 23.2514, 10.1829



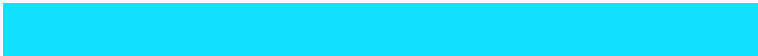
26.3440, 23.2514, 143.9394

# Complementary

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



42.3105, 23.2514, 2.7482



45.1835, 61.1700, 104.0325

# 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.



15.8579, 23.2514, 136.8585



42.3105, 23.2514, 2.7482



7.1369, 23.2514, 38.5808

# Square

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



42.3105, 23.2514, 2.7482



10.9297, 23.2514, 1.5689



9.6359, 23.2514, 89.4299



39.0723, 23.2514, 104.5312



# Rectangle

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



42.3105, 23.2514, 2.7482



21.7779, 23.2514, 0.0000



9.6359, 23.2514, 89.4299



22.4248, 23.2514, 147.4165

# Sweetspot

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



42.3110, 23.2529, 2.7485



68.8244, 62.6531, 53.5937



55.3061, 27.1829, 75.0889



14.0553, 12.4371, 10.0782



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.



42.3110, 23.2529, 2.7485



41.7573, 22.2946, 2.1024



54.4986, 47.6281, 6.8111



18.1932, 18.3545, 18.7282



21.8759, 11.7630, 1.1175

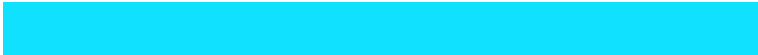


2.1850, 1.2554, 0.1272

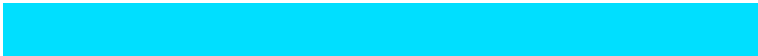


# Inverse Universe

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



45.1835, 61.1700, 104.0325



44.4301, 59.9801, 103.8434



23.5859, 17.9748, 96.8333



18.3487, 20.0691, 23.1566



23.2921, 31.4939, 54.2859



2.3201, 3.1708, 5.3030



# Previews

## White Background



This preview shows how the XYZ color 42.3105, 23.2514, 2.7482 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

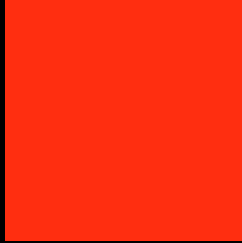
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.3105, 23.2514, 2.7482 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 42.3105, 23.2514, 2.7482**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.3105, 23.2514, 2.7482.



This preview shows how white text looks on a background with the XYZ color 42.3105, 23.2514,



# 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

42.3105, 23.2514, 2.7482

### Protanopia

21.1159, 23.2982, 5.1343

### Deuteranopia

23.6093, 23.2465, 3.2427



## Tritanopia

42.5767, 23.2358, 4.5264

# Trichromacy



## Original Color

42.3105, 23.2514, 2.7482

## Protanomaly

25.6145, 20.0874, 3.6896

## Deuteranomaly

28.1270, 20.8419, 2.7127

## Tritanomaly

42.4529, 23.2466, 3.6884

# Monochromacy



## Original Color

42.3105, 23.2514, 2.7482

## Achromatopsia

13.4271, 14.1263, 15.3836

## Achromatomaly

18.8701, 14.2953, 8.0680

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3105, 23.2514, 2.7482 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(255, 46, 16)` looks like.

```
.text, #text, p{  
    color:rgb(255, 46, 16)  
}
```

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(255, 46, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 46, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3105, 23.2514, 2.7482 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(255, 46, 16) }
```



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

```
.border{ border-color:rgb(255, 46, 16) }
```

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

Here you see how a box with a 4 pixel rgb(255, 46, 16) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 46, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 46, 16);  
box-shadow:4px 4px 4px 4px rgb(255, 46,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3105, 23.2514, 2.7482 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 46, 16) }
```

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

```
.background{ background-color: rgb(255, 46,  
16) }
```

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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