

# Converting Colors

XYZ(13.8447, 7.0004, 6.8276)

Have a look what the booklet for  
XYZ(13.8447, 7.0004, 6.8276)  
contains.

<b>XYZ(13.7474, 6.9519, 6.7482)</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(13.7474, 6.9519,  
6.7482)**

# Conversions

## Conversions Part 1

Format	Color
Hex	960048
RGB	150, 0, 72
RGB Percent	59%, 0%, 28%
CMY	0.4118, 0.9999, 0.7176
CMYK	0.00, 1.00, 0.52, 0.41
HSL	331°, 100%, 29%
HSV	331°, 100%, 59%
XYZ	13.7474, 6.9519, 6.7482
YIQ	53.0580, 66.2880, 54.1920

# Conversions

## Conversions Part 2

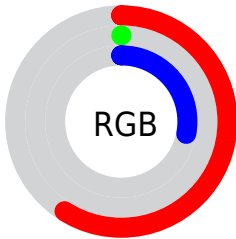
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 0, 72
Decimal	9830472
CIE Lab	31.70, 56.87, 3.09
CIE LCh	32, 56.953, 3.109
Yxy	6.9519, 0.5009, 0.2533
Android (android.graphics.Color)	4288020552 (0xFF960048)
YUV	53.0580, 9.3384, 85.0181
Hunter-Lab	26.3665, 46.9281, 3.2819

# Details

The XYZ color **13.7474, 6.9519, 6.7482** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **12.2824, 22.3631, 10.8803**, and the grayscale version is **3.3756, 3.5514, 3.8674**.

A 20% lighter version of the original color is **32.1334, 19.8089, 19.8992**, and **4.6354, 2.3640, 1.3744** is the 20% darker color. If you saturate the color by 10%, you get **13.7471, 6.9518, 6.7466**, and if you desaturate by 10%, it is **14.1894, 7.4025, 8.2319**.

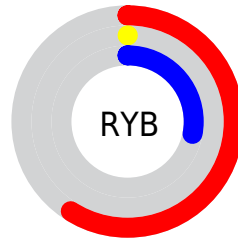
# Distribution



Red (59%)

Green (0%)

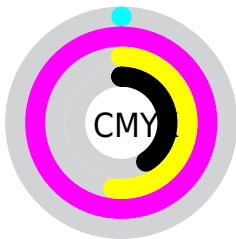
Blue (28%)



Red (59%)

Yellow (0%)

Blue (28%)

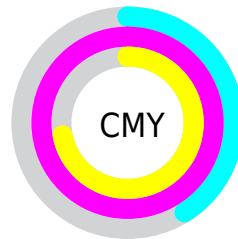


Cyan (0%)

Magenta (100%)

Yellow (52%)

Black (41%)



Cyan (41%)

Magenta (100%)


Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7474, 6.9519, 6.7482 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 13.7474, 6.9519, 6.7482 by changing the saturation by 10% instead.




 13.7474, 6.9519,  
6.7482


 13.7474, 6.9519,  
6.7482


209.1959,  
167.2634, 175.1055


 8.0257, 3.4320,  
3.2291


 32.2302, 19.8764,  
19.9690


 4.1633, 1.3612,  
1.2128

 45.7220, 30.0498,  
30.5078


 1.7950, 0.1879,  
0.0000

 62.5345, 43.2098,  
44.2235

 0.5146, 0.0000,  
0.0000

 83.0332, 59.7409,  
61.5347

 0.0000, 0.0000,  
0.0000

 107.5833, 80.0274,  
82.8600

 136.5502,

104.4537, 108.6179

170.2993,  
133.4043, 139.2269

13.7474, 6.9519,  
6.7482

13.7474, 6.9519,  
6.7482

13.7471, 6.9518,  
6.7466

14.1894, 7.4025,  
8.2319

14.7874, 8.1115,  
9.9327

15.6007, 9.1958,  
11.8755

16.6529, 10.7011,  
14.0735

17.9645, 12.6665,  
16.5384

■ 19.5535, 15.1268,  
19.2809

■ 21.4363, 18.1131,  
22.3110

■ 23.6280, 21.6541,  
25.6380

■ 26.1424, 25.7765,  
29.2709

# Harmonies

## Analogous

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



12.8148, 6.9519, 17.1434



13.7474, 6.9519, 6.7482



12.3572, 6.9519, 1.8189

# Triad

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



13.7474, 6.9519, 6.7482



4.0390, 6.9519, 0.4855



4.4221, 6.9519, 32.0427

# Complementary

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



13.7474, 6.9519, 6.7482



12.2824, 22.3631, 10.8803

# 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.



2.9926, 6.9519, 19.8193



13.7474, 6.9519, 6.7482



2.8204, 6.9519, 2.4517

# Square

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



13.7474, 6.9519, 6.7482



6.3142, 6.9519, 0.0000



2.5012, 6.9519, 8.4547



6.9099, 6.9519, 36.6358



# Rectangle

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



13.7474, 6.9519, 6.7482



10.4826, 6.9519, 0.6362



2.5012, 6.9519, 8.4547



3.8289, 6.9519, 28.4003

# Sweetspot

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



13.7476, 6.9523, 6.7483



37.6147, 31.6202, 39.0365



8.6070, 3.8015, 29.1343



8.0451, 6.5439, 8.1901



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.7476, 6.9523, 6.7483



24.1731, 12.2334, 11.4459



12.6051, 6.5387, 0.5983



5.9098, 5.8590, 6.6310



11.4176, 5.7721, 5.6801



0.1545, 0.0765, 0.1472



# Inverse Universe

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



13.7476, 6.9523, 6.7483



24.1731, 12.2334, 11.4459



16.0169, 23.2255, 32.4929



5.9098, 5.8590, 6.6310



11.4176, 5.7721, 5.6801



0.1545, 0.0765, 0.1472



# Previews

## White Background



This preview shows how the XYZ color 13.7474, 6.9519, 6.7482 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

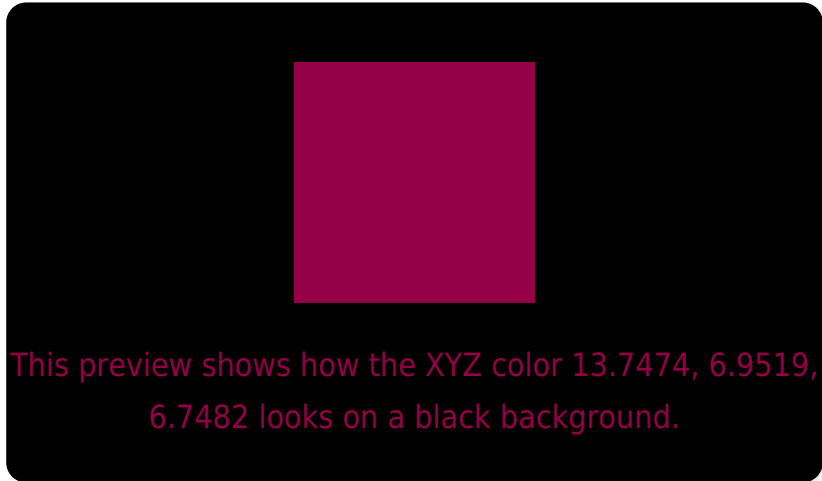
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 13.7474, 6.9519, 6.7482**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.7474, 6.9519, 6.7482.



This preview shows how white text looks on a background with the XYZ color 13.7474, 6.9519,



# 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

13.7474, 6.9519, 6.7482

### Protanopia

7.6784, 7.6093, 14.1608

### Deuteranopia

7.7159, 7.5992, 6.2144



## Tritanopia

12.8617, 7.2585, 1.8217

# Trichromacy



## Original Color

13.7474, 6.9519, 6.7482

## Protanomaly

8.1757, 5.6220, 10.7795

## Deuteranomaly

8.7824, 5.9760, 6.1594

## Tritanomaly

13.0654, 7.0040, 3.0462

# Monochromacy



## Original Color

13.7474, 6.9519, 6.7482

## Achromatopsia

3.3839, 3.5601, 3.8770

## Achromatomaly

5.4121, 3.5450, 4.6740

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.7474, 6.9519, 6.7482 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(150, 0, 72)` looks like.

```
.text, #text, p{  
    color:rgb(150, 0, 72)  
}
```

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(150, 0, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 0, 72) }
```

## Border

The CSS property to change the border of an element to XYZ 13.7474, 6.9519, 6.7482 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(150, 0, 72) }
```



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

```
.border{ border-color:rgb(150, 0, 72) }
```

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

Here you see how a box with a 4 pixel rgb(150, 0, 72) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 0, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 0, 72);  
box-shadow:4px 4px 4px 4px rgb(150, 0, 72)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 13.7474, 6.9519, 6.7482 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 0, 72) }
```

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

```
.background{ background-color: rgb(150, 0,  
72) }
```

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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