

# Converting Colors

XYZ(76.7567, 97.8316, 12.5670)

Have a look what the booklet for  
XYZ(76.7567, 97.8316, 12.5670)  
contains.

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# **Color**

**XYZ(73.7660, 91.1128,  
13.6987)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F6FF00
RGB	246, 255, 0
RGB Percent	96%, 100%, 0%
CMY	0.0353, 0.0000, 0.9998
CMYK	0.04, 0.00, 1.00, 0.00
HSL	62°, 100%, 50%
HSV	62°, 100%, 100%
XYZ	73.7660, 91.1128, 13.6987
YIQ	223.2390, 76.4910, -81.2130

# Conversions

## Conversions Part 2

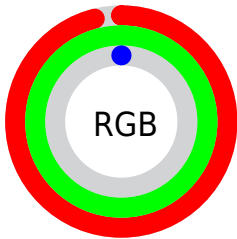
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 255, 9</a>
Decimal	<a href="#">16187136</a>
CIELab	<a href="#">96.46, -25.24, 93.67</a>
CIELCh	<a href="#">96, 97.014, 105.078</a>
Yxy	<a href="#">91.1128, 0.4131, 0.5102</a>
Android (android.graphics.Color)	<a href="#">4294377216</a> ( <a href="#">0xFFFF6FF00</a> )
YUV	<a href="#">223.2390, -110.0568, 19.9614</a>
Hunter-Lab	<a href="#">95.4530, -29.0982, 58.3083</a>

# Details

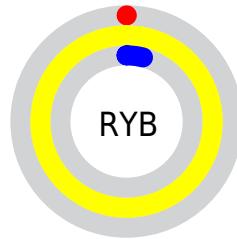
The XYZ color **73.7660, 91.1128, 13.6987** is a light color, and the websafe version is hex **FFFF00**. The color can be described as light saturated yellow. A complement of this color would be **18.1637, 7.2793, 95.0555**, and the grayscale version is **71.0325, 74.7317, 81.3828**.

A 20% lighter version of the original color is **79.1113, 93.6245, 24.9681**, and **40.4310, 51.1611, 7.7441** is the 20% darker color. If you saturate the color by 10%, you get **73.7652, 91.1124, 13.6986**, and if you desaturate by 10%, it is **74.2636, 91.3484, 14.6686**.

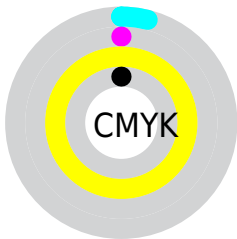
# Distribution



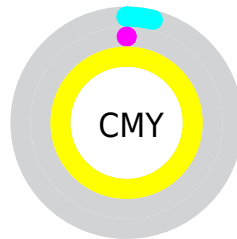
- Red (96%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (4%)



- Cyan (4%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (4%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 73.7660, 91.1128, 13.6987 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 73.7660, 91.1128, 13.6987 by changing the saturation by 10% instead.




 73.7660, 91.1128,  
13.6987


 73.7660, 91.1128,  
13.6987


462.7282,  
531.6441, 226.7112

 54.8931, 68.9040,  
7.7751


 123.5613,  
148.8832, 33.2628

 39.5497, 50.6335,  
3.8656


 155.2145,  
185.2135, 47.7404


 27.3703, 35.9170,  
1.5519


 191.8585,  
227.0197, 65.9064

 17.9895, 24.3701,  
0.2562

 233.8587,  
274.6864, 88.1793

 11.0421, 15.6084,  
0.0000

 281.5804,  
328.5977, 114.9777

 6.1627, 9.2475,  
0.0000

 335.3889,

 2.9858, 4.9030,

389.1382, 146.7201

0.0000

395.6497,  
456.6922, 183.8251

■ 1.1463, 2.1904,  
0.0000

■ 0.0633, 0.7148,  
0.0000

■ 73.7660, 91.1128,  
13.6987

■ 73.7660, 91.1128,  
13.6987


■ 73.7652, 91.1124,  
13.6986


■ 74.2636, 91.3484,  
14.6686


■ 74.9988, 91.6792,  
16.8798


■ 76.0434, 92.1340,  
20.7125


■ 77.4415, 92.7303,  
26.3985

 79.2301, 93.4830,  
34.1326

 81.4414, 94.4050,  
44.0848

 84.1043, 95.5078,  
56.4076

 87.2454, 96.8020,  
71.2396

 90.8888, 98.2974,  
88.7092

# Harmonies

## Analogous

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



100.6916, 91.1128, 13.6708



73.7660, 91.1128, 13.6987



54.7537, 91.1128, 26.8285

# Triad

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



73.7660, 91.1128, 13.6987



54.8272, 91.1128, 246.4167



147.1867, 91.1128, 142.7065

# Complementary

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



73.7660, 91.1128, 13.6987



18.1637, 7.2793, 95.0555

# 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.



128.8813, 91.1128, 245.8931



73.7660, 91.1128, 13.6987



73.8885, 91.1128, 323.8823

# Square

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



73.7660, 91.1128, 13.6987



45.4706, 91.1128, 143.2044



100.8424, 91.1128, 323.6522



147.1347, 91.1128, 65.2922



# Rectangle

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



73.7660, 91.1128, 13.6987



47.4859, 91.1128, 48.7559



100.8424, 91.1128, 323.6522



142.8319, 91.1128, 176.1184

# Sweetspot

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



73.7659, 91.1127, 13.6999



84.0995, 95.5058, 56.3851



41.3329, 21.4455, 1.9621



17.7484, 20.3378, 10.8932



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.



73.7659, 91.1127, 13.6999



73.7652, 91.1124, 13.6986



43.3711, 75.4436, 12.2774



19.4941, 21.0561, 19.1811



38.5721, 47.6227, 7.1591



3.7747, 4.6467, 0.6980



# Inverse Universe

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



18.1637, 7.2793, 95.0555



18.1627, 7.2781, 95.0553



28.2070, 12.4568, 95.5255



17.0623, 17.4083, 22.7108



9.5160, 3.8162, 49.6696

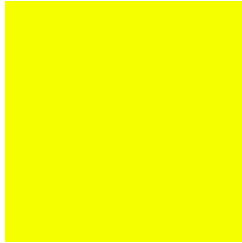


0.9465, 0.3818, 4.8371



# Previews

## White Background



This preview shows how the XYZ color 73.7660, 91.1128, 13.6987 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

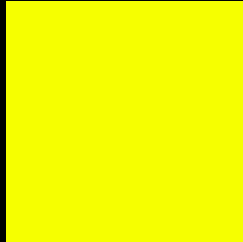
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 73.7660, 91.1128, 13.6987 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 ✓ Pass

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

**XYZ 73.7660, 91.1128, 13.6987**

## **Background**



This preview shows how black text looks on a background with the XYZ color 73.7660, 91.1128, 13.6987.



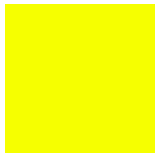
This preview shows how white text looks on a background with the XYZ color 73.7660, 91.1128,



# 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



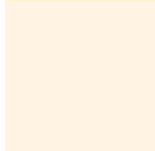
### Original Color

73.7660, 91.1128, 13.6987



### Protanopia

84.9119, 90.9726, 70.8417



### Deuteranopia

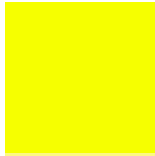
87.2942, 90.9626, 86.3554



## Tritanopia

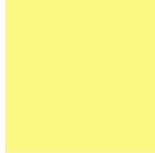
89.8127, 90.5452, 104.0101

# Trichromacy



## Original Color

73.7660, 91.1128, 13.6987



## Protanomaly

78.0498, 90.0585, 34.3885



## Deuteranomaly

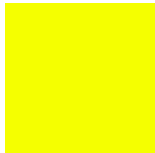
78.5165, 89.2613, 39.8790



## Tritanomaly

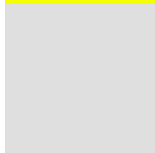
79.1425, 88.5383, 46.1761

# Monochromacy



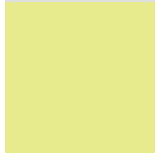
## Original Color

73.7660, 91.1128, 13.6987



## Achromatopsia

70.1384, 73.7910, 80.3584



## Achromatomaly

67.5458, 78.3586, 37.1559

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 73.7660, 91.1128, 13.6987 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(246, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(246, 255, 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(246, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 255, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 73.7660, 91.1128, 13.6987 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(246, 255, 0) }
```



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

```
.border{ border-color:rgb(246, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(246, 255,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 73.7660, 91.1128, 13.6987 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 255, 0) }
```

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

```
.background{ background-color: rgb(246,  
255, 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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