

# Converting Colors

XYZ(77.7382, 90.4192, 25.9258)

Have a look what the booklet for  
XYZ(77.7382, 90.4192, 25.9258)  
contains.

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# **Color**

**XYZ(77.8239, 90.5905,  
25.9543)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFA66
RGB	255, 250, 102
RGB Percent	100%, 98%, 40%
CMY	0.0000, 0.0196, 0.6000
CMYK	0.00, 0.02, 0.60, 0.00
HSL	58°, 100%, 70%
HSV	58°, 60%, 100%
XYZ	77.8239, 90.5905, 25.9543
YIQ	234.6230, 50.4880, -44.9680

# Conversions

## Conversions Part 2

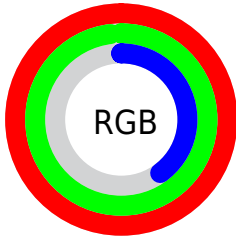
Format	Color
<a href="#">RYB</a>	<a href="#">107, 255, 102</a>
Decimal	<a href="#">16775782</a>
CIELab	<a href="#">96.24, -16.03, 69.51</a>
CIELCh	<a href="#">96, 71.337, 102.988</a>
Yxy	<a href="#">90.5905, 0.4004, 0.4661</a>
Android (android.graphics.Color)	<a href="#">4294965862</a> (0xFFFFFA66)
YUV	<a href="#">234.6230, -65.3831, 17.8706</a>
Hunter-Lab	<a href="#">95.1790, -20.6114, 50.4576</a>

# Details

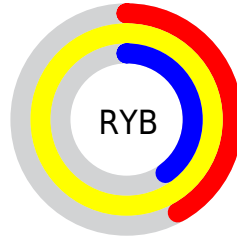
The XYZ color **77.8239, 90.5905, 25.9543** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **28.7873, 20.5598, 97.0585**, and the grayscale version is **79.1355, 83.2567, 90.6665**.

A 20% lighter version of the original color is **83.1716, 95.2486, 46.3490**, and **42.2335, 50.3601, 9.7800** is the 20% darker color. If you saturate the color by 10%, you get **76.4916, 89.6481, 20.2021**, and if you desaturate by 10%, it is **79.5504, 91.6991, 33.7584**.

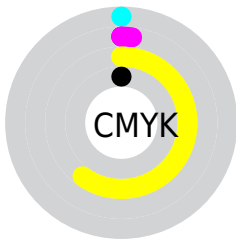
# Distribution



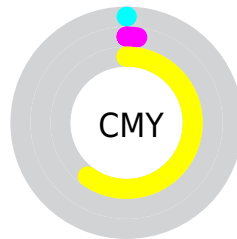
- Red (100%)
- Green (98%)
- Blue (40%)



- Red (42%)
- Yellow (100%)
- Blue (40%)



- Cyan (0%)
- Magenta (2%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (2%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.8239, 90.5905, 25.9543 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 77.8239, 90.5905, 25.9543 by changing the saturation by 10% instead.




 77.8239, 90.5905,  
25.9543


 77.8239, 90.5905,  
25.9543


476.4175,  
529.9499, 296.1560

 58.2316, 68.4705,  
16.5640


 129.2685,  
148.1584, 54.1844


 42.2389, 50.2806,  
9.7655


 161.8516,  
184.3750, 73.8613

 29.4803, 35.6364,  
5.1402

 199.4956,  
226.0593, 97.8041

 19.5906, 24.1535,  
2.2696

 242.5659,  
273.5957, 126.4313

 12.2043, 15.4475,  
0.7141

291.4279,  
327.3686, 160.1616

 6.9562, 9.1341,  
0.0000

346.4470,

 3.4808, 4.8287,

387.7623, 199.4135

0.0000

407.9884,  
455.1612, 244.6054

■ 1.4128, 2.1471,  
0.0000

■ 0.2653, 0.6909,  
0.0000

■ 77.8239, 90.5905,  
25.9543

■ 77.8239, 90.5905,  
25.9543

■ 76.4916, 89.6481,  
20.2021

■ 79.5504, 91.6991,  
33.7584

■ 75.5102, 88.8445,  
16.3014


■ 81.6971, 92.9743,  
43.7788


■ 74.8378, 88.1663,  
14.0219

■ 84.2951, 94.4319,  
56.1697

■ 74.4023, 87.5847,  
12.9843

■ 87.3707, 96.0823,  
71.0702

 74.4022, 87.5846,  
12.9841

 90.9482, 97.9353,  
88.6082

95.0497, 99.9997,  
108.9000

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

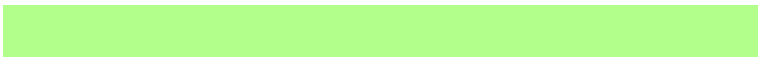
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



97.7349, 90.5905, 26.7769



77.8239, 90.5905, 25.9543



62.6567, 90.5905, 38.4265

# Triad

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



77.8239, 90.5905, 25.9543



61.1390, 90.5905, 193.2759



127.9023, 90.5905, 134.1182

# Complementary

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



77.8239, 90.5905, 25.9543



28.7873, 20.5598, 97.0585

# 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.



114.7725, 90.5905, 201.8820



77.8239, 90.5905, 25.9543



75.4337, 90.5905, 244.0367

# Square

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



77.8239, 90.5905, 25.9543



54.0666, 90.5905, 125.2406



94.9506, 90.5905, 247.6813



128.8056, 90.5905, 76.0969



# Rectangle

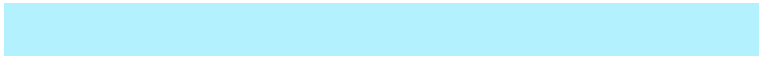
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.8239, 90.5905, 25.9543



56.4326, 90.5905, 56.9264



94.9506, 90.5905, 247.6813



124.6899, 90.5905, 156.9383

# Sweetspot

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



77.8260, 90.5947, 25.9562



88.0450, 96.4364, 74.3602



48.6510, 31.8272, 17.5178



18.6366, 20.5317, 14.8982



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.



77.8260, 90.5947, 25.9562



76.2685, 89.4767, 19.2797



57.8302, 82.6203, 25.4708



19.5074, 20.9830, 19.1663



38.8996, 45.8104, 6.7921



3.8028, 4.4910, 0.6664



# Inverse Universe

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



28.7873, 20.5598, 97.0585



23.3593, 13.9375, 96.0668



40.1244, 25.6537, 97.4442



17.0505, 17.4727, 22.7239



9.4993, 3.9081, 49.6883

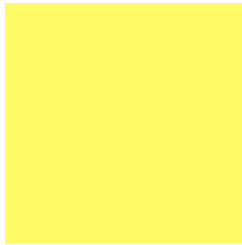


0.9409, 0.4125, 4.8433



# Previews

## White Background



This preview shows how the XYZ color 77.8239, 90.5905, 25.9543 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

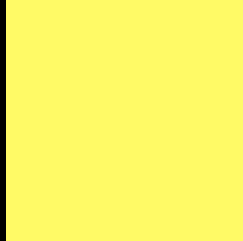
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.8239, 90.5905, 25.9543 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

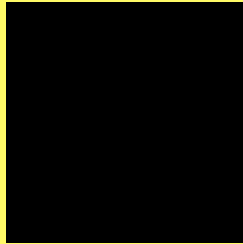
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 77.8239, 90.5905, 25.9543**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.8239, 90.5905, 25.9543.



This preview shows how white text looks on a background with the XYZ color 77.8239, 90.5905,



# 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



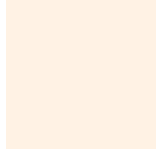
### Original Color

77.8239, 90.5905, 25.9543



### Protanopia

84.4898, 90.3210, 70.1073



### Deuteranopia

86.9957, 90.3657, 86.2559



## Tritanopia

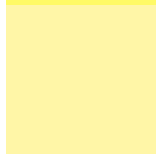
89.3434, 90.3575, 101.5388

# Trichromacy



## Original Color

77.8239, 90.5905, 25.9543



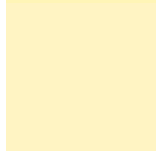
## Protanomaly

81.1708, 89.9616, 49.6454



## Deuteranomaly

82.3359, 89.9422, 57.2770



## Tritanomaly

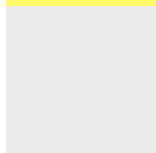
83.4410, 89.9015, 64.5847

# Monochromacy



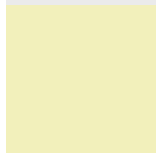
## Original Color

77.8239, 90.5905, 25.9543



## Achromatopsia

78.9647, 83.0770, 90.4708



## Achromatomaly

76.7477, 84.7853, 59.3339

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.8239, 90.5905, 25.9543 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, 250, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 250, 102)  
}
```

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, 250, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 250, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 77.8239, 90.5905, 25.9543 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, 250, 102) }
```



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

```
.border{ border-color:rgb(255, 250, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 250, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 250, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 250, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 250,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.8239, 90.5905, 25.9543 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 250, 102) }
```

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

```
.background{ background-color: rgb(255,  
250, 102) }
```

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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