

# Converting Colors

XYZ(77.4170, 79.0785, 99.6234)

Have a look what the booklet for  
XYZ(77.4170, 79.0785, 99.6234)  
contains.

<b>XYZ(77.6417, 79.2530, 100.0121)</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(77.6417, 79.2530,  
100.0121)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7E4F8
RGB	231, 228, 248
RGB Percent	91%, 89%, 97%
CMY	0.0941, 0.1059, 0.0274
CMYK	0.07, 0.08, 0.00, 0.03
HSL	249°, 59%, 93%
HSV	249°, 8%, 97%
XYZ	77.6417, 79.2530, 100.0121
YIQ	231.1770, -4.6320, 6.8560

# Conversions

## Conversions Part 2

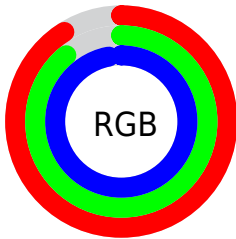
Format	Color
R <sub>Y</sub> B	231, 228, 248
Decimal	15197432
CIE Lab	91.35, 4.69, -9.33
CIE LCh	91, 10.443, 296.690
Yxy	79.2530, 0.3022, 0.3085
Android (android.graphics.Color)	4293387512 (0xFFE7E4F8)
YUV	231.1770, 8.2937, -0.1552
Hunter-Lab	89.0242, -0.1149, -4.2911

# Details

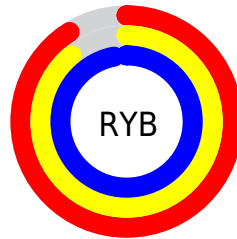
The XYZ color **77.6417, 79.2530, 100.0121** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **85.2299, 92.1507, 86.6974**, and the grayscale version is **76.0320, 79.9916, 87.1109**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.1372, 42.8069, 55.9109** is the 20% darker color. If you saturate the color by 10%, you get **64.9032, 63.2759, 97.6008**, and if you desaturate by 10%, it is **92.1832, 97.6165, 102.7914**.

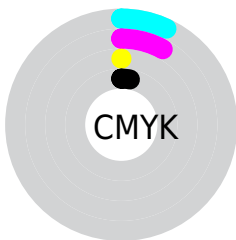
# Distribution



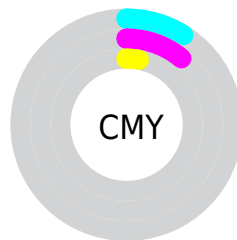
- Red (91%)
- Green (89%)
- Blue (97%)



- Red (91%)
- Yellow (89%)
- Blue (97%)



- Cyan (7%)
- Magenta (8%)
- Yellow (0%)
- Black (3%)



- Cyan (9%)
- Magenta (11%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.6417, 79.2530, 100.0121 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 77.6417, 79.2530, 100.0121 by changing the saturation by 10% instead.



■ 77.6417, 79.2530,  
100.0121

■ 77.6417, 79.2530,  
100.0121

475.8076,  
492.4118, 581.4785

■ 58.0815, 59.1038,  
75.6937

129.0130,  
132.3150, 163.2258

■ 42.1177, 42.6967,  
55.6762

161.5547,  
165.9966, 202.9582

■ 29.3849, 29.6472,  
39.5411

199.1542,  
204.9578, 248.6657

■ 19.5180, 19.5710,  
26.8699

242.1770,  
249.5830, 300.7669

■ 12.1514, 12.0836,  
17.2440

290.9884,  
300.2566, 359.6802

■ 6.9198, 6.8006,  
10.2448

345.9537,

■ 3.4579, 3.3377,

357.3630, 425.8242

5.4538

407.4383,  
421.2866, 499.6174

■ 1.4003, 1.3105,  
2.4526

■ 0.2564, 0.1493,  
0.8149

■ 77.6417, 79.2530,  
100.0121

■ 77.6417, 79.2530,  
100.0121

■ 64.9032, 63.2759,  
97.6008

■ 92.1832, 97.6165,  
102.7914

■ 53.8901, 49.5774,  
95.5372

■ 93.9435, 99.5574,  
103.0733

■ 44.5298, 38.0560,  
93.8067

■ 36.7414, 28.5990,  
92.3918

■ 30.4375, 21.0831,  
91.2733

■ 25.5217, 15.3721,  
90.4301

■ 21.8860, 11.3117,  
89.8380

■ 19.4056, 8.7211,  
89.4687

■ 17.9202, 7.3583,  
89.2839

# Harmonies

## Analogous

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



75.0335, 79.2530, 101.7119



77.6417, 79.2530, 100.0121



79.6708, 79.2530, 94.5656

# Triad

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



77.6417, 79.2530, 100.0121



78.1633, 79.2530, 74.6528



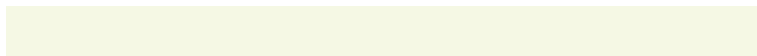
70.3498, 79.2530, 85.4524

# Complementary

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



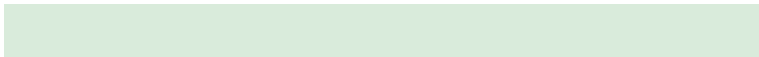
77.6417, 79.2530, 100.0121



85.2299, 92.1507, 86.6974

# Split Complementary

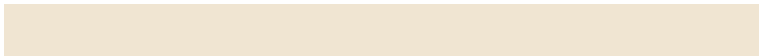
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



71.1452, 79.2530, 78.5176



77.6417, 79.2530, 100.0121



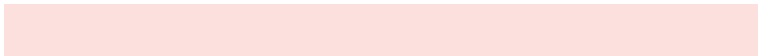
75.6225, 79.2530, 72.5169

# Square

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



77.6417, 79.2530, 100.0121



79.9768, 79.2530, 79.8972



73.0599, 79.2530, 73.8897



70.8621, 79.2530, 93.0214

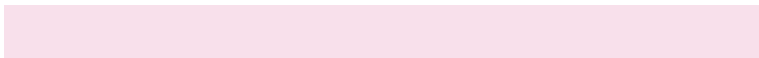


# Rectangle

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



77.6417, 79.2530, 100.0121



80.4006, 79.2530, 89.6996



73.0599, 79.2530, 73.8897



70.4726, 79.2530, 82.9738

# Sweetspot

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



77.6440, 79.2564, 100.0138



91.8674, 95.9760, 108.2910



81.6940, 88.7801, 101.6387



19.6968, 20.5850, 23.1851



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.



77.6440, 79.2564, 100.0138



79.9173, 80.9136, 106.0135



80.8512, 80.9097, 100.1639



16.5251, 16.7678, 21.7508



9.6394, 3.9120, 48.2206



0.9625, 0.3983, 4.4693



# Inverse Universe

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



82.9389, 82.0392, 97.8536



86.8386, 84.5520, 103.1574



81.9445, 90.4570, 86.5436



17.8746, 17.4772, 21.1956



27.2938, 13.3332, 34.5851

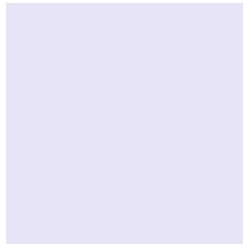


2.5573, 1.2466, 3.3579



# Previews

## White Background



This preview shows how the XYZ color 77.6417, 79.2530, 100.0121 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

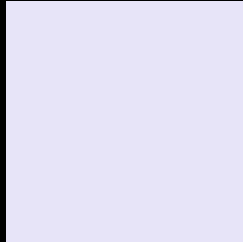
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.6417, 79.2530, 100.0121 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

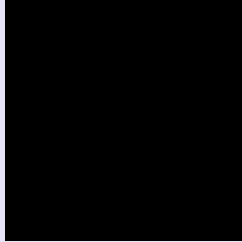
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 77.6417, 79.2530, 100.0121

## Background



This preview shows how black text looks on a background with the XYZ color 77.6417, 79.2530, 100.0121.



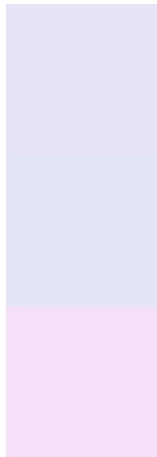
This preview shows how white text looks on a background with the XYZ color 77.6417, 79.2530,



# 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

77.6417, 79.2530, 100.0121

### Protanopia

77.2757, 79.4739, 100.0741

### Deuteranopia

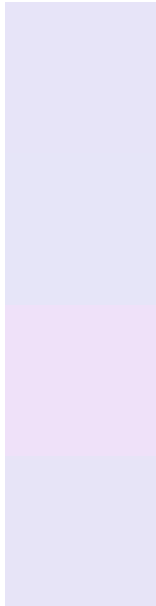
81.0628, 79.3840, 100.6727



## Tritanopia

77.3330, 79.1296, 98.3864

# Trichromacy



## Original Color

77.6417, 79.2530, 100.0121

## Protanomaly

77.5957, 79.6389, 100.0891

## Deuteranomaly

79.6207, 79.0407, 100.6825

## Tritanomaly

77.4869, 79.1911, 99.1971

# Monochromacy



## Original Color

77.6417, 79.2530, 100.0121

## Achromatopsia

75.9547, 79.9103, 87.0223

## Achromatomaly

76.5379, 79.6970, 91.4698

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.6417, 79.2530, 100.0121 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(231, 228, 248)` looks like.

```
.text, #text, p{  
    color:rgb(231, 228, 248)  
}
```

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(231, 228, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 228, 248) }
```

## Border

The CSS property to change the border of an element to XYZ 77.6417, 79.2530, 100.0121 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(231, 228, 248) }
```



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

```
.border{ border-color:rgb(231, 228, 248) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 228, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 228, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 228, 248);  
box-shadow:4px 4px 4px 4px rgb(231, 228,  
248) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.6417, 79.2530, 100.0121 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 228, 248) }
```

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

```
.background{ background-color: rgb(231,  
228, 248) }
```

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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