

# Converting Colors

XYZ(77.8380, 87.0415,  
100.9773)

Have a look what the booklet for  
XYZ(77.8380, 87.0415, 100.9773)  
contains.

<b>XYZ(77.7686, 87.0740, 100.7038)</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(77.7686, 87.0740,  
100.7038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7F6F7
RGB	215, 246, 247
RGB Percent	84%, 96%, 97%
CMY	0.1569, 0.0353, 0.0314
CMYK	0.13, 0.00, 0.00, 0.03
HSL	182°, 67%, 91%
HSV	182°, 13%, 97%
XYZ	77.7686, 87.0740, 100.7038
YIQ	236.8450, -18.7970, -6.2610

# Conversions

## Conversions Part 2

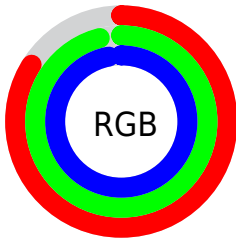
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	215, 231, 247
Decimal	14153463
CIE Lab	94.77, -9.80, -3.88
CIE LCh	95, 10.540, 201.593
Yxy	87.0740, 0.2929, 0.3279
Android (android.graphics.Color)	4292343543 (0xFFD7F6F7)
YUV	236.8450, 5.0064, -19.1581
Hunter-Lab	93.3135, -14.5344, 1.3337

# Details

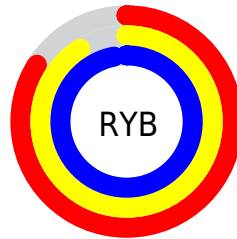
The XYZ color **77.7686, 87.0740, 100.7038** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **75.1799, 73.7920, 74.5724**, and the grayscale version is **80.3522, 84.5368, 92.0605**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **42.3146, 48.0621, 56.3369** is the 20% darker color. If you saturate the color by 10%, you get **70.8234, 83.1493, 100.3137**, and if you desaturate by 10%, it is **85.8148, 91.5724, 101.1494**.

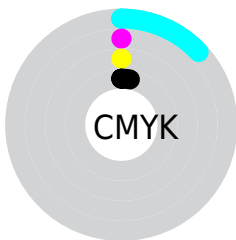
# Distribution



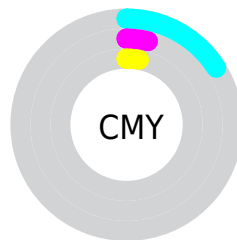
- Red (84%)
- Green (96%)
- Blue (97%)



- Red (84%)
- Yellow (91%)
- Blue (97%)



- Cyan (13%)
- Magenta (0%)
- Yellow (0%)
- Black (3%)



- Cyan (16%)
- Magenta (4%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.7686, 87.0740, 100.7038 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 77.7686, 87.0740, 100.7038 by changing the saturation by 10% instead.



77.7686, 87.0740,  
100.7038

77.7686, 87.0740,  
100.7038

476.2325,  
518.4660, 583.7127

58.1860, 65.5564,  
76.2683

129.1910,  
143.2673, 164.1843

42.2021, 47.9124,  
56.1446

161.7615,  
178.7118, 204.0664

29.4513, 33.7575,  
39.9141

199.3920,  
219.5674, 249.9345

19.5685, 22.7074,  
27.1583

242.4479,  
266.2185, 302.2070

12.1882, 14.3776,  
17.4586

291.2946,  
319.0496, 361.3025

6.9451, 8.3838,  
10.3966

346.2973,

3.4738, 4.3415,

378.4449, 427.6396

5.5537

407.8215,  
444.7889, 501.6369

■ 1.4090, 1.8664,  
2.5113

■ 0.2626, 0.5280,  
0.8461

■ 77.7686, 87.0740,  
100.7038

■ 77.7686, 87.0740,  
100.7038

■ 70.8234, 83.1493,  
100.3137

■ 85.8148, 91.5724,  
101.1494

■ 64.9227, 79.7622,  
99.9709


■ 91.4560, 94.8300,  
101.4808


■ 60.0164, 76.8892,  
99.6750


■ 91.6924, 95.3028,  
101.5596


■ 56.0473, 74.5007,  
99.4231


■ 91.9298, 95.7775,  
101.6387

 52.9523, 72.5644,  
99.2125


 92.1681, 96.2542,  
101.7182


 50.6608, 71.0436,  
99.0397


 92.4074, 96.7328,  
101.7980


 49.0910, 69.8963,  
98.9010

 92.6477, 97.2134,  
101.8781

 48.1436, 69.0714,  
98.7917

 92.8890, 97.6960,  
101.9585

 47.7461, 68.6302,  
98.7275

 93.1312, 98.1805,  
102.0392

# Harmonies

## Analogous

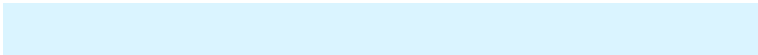
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.4565, 87.0740, 92.5322



77.7686, 87.0740, 100.7038



79.4026, 87.0740, 107.6494

# Triad

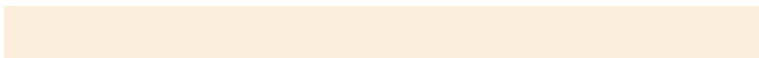
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



77.7686, 87.0740, 100.7038



87.1311, 87.0740, 104.8991



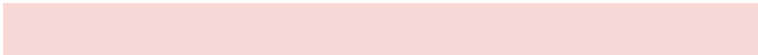
83.5652, 87.0740, 80.1122

# Complementary

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



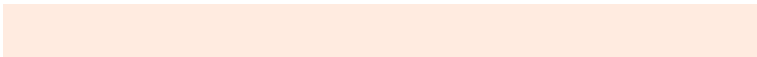
77.7686, 87.0740, 100.7038



75.1799, 73.7920, 74.5724

# 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.



86.2133, 87.0740, 83.0321



77.7686, 87.0740, 100.7038



88.3028, 87.0740, 97.1225

# Square

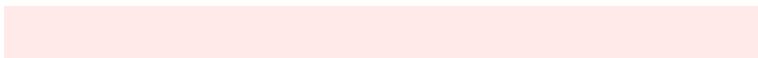
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



77.7686, 87.0740, 100.7038



84.7948, 87.0740, 110.1667



87.9631, 87.0740, 89.1484



80.7604, 87.0740, 80.9489

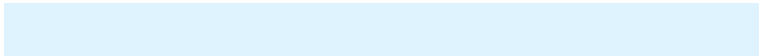


# Rectangle

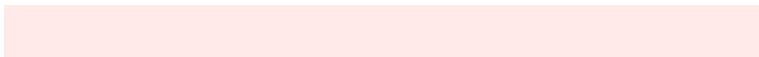
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



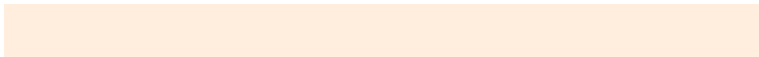
77.7686, 87.0740, 100.7038



81.0425, 87.0740, 110.4969



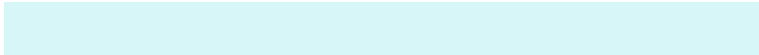
87.9631, 87.0740, 89.1484



84.5041, 87.0740, 80.6806

# Sweetspot

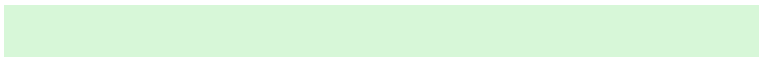
The Sweet Spot groups the original color and five complimentary colors.



77.7711, 87.0776, 100.7057



91.2952, 97.9140, 108.6953



73.6210, 85.9039, 77.3523



19.3945, 20.8761, 23.2572



0.0000, 0.0000, 0.0000

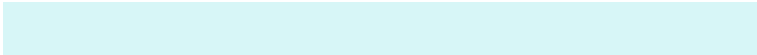


20.3446, 21.4041, 23.3091



# Same Dimension

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



77.7711, 87.0776, 100.7057



81.1960, 92.2583, 108.1359



73.2412, 78.0178, 99.1958



16.9499, 18.6640, 21.2517



25.2715, 36.3369, 52.2198



2.2348, 3.2210, 4.5942



# Inverse Universe

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



79.2947, 75.0306, 97.4961



83.1833, 76.5929, 103.9386



79.3504, 82.1328, 75.9625



17.1900, 16.7589, 20.7472



28.5604, 13.7676, 44.5210

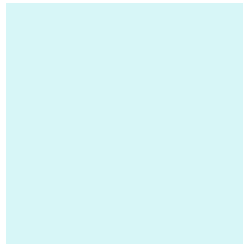


2.5171, 1.2128, 3.9493



# Previews

## White Background



This preview shows how the XYZ color 77.7686, 87.0740, 100.7038 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

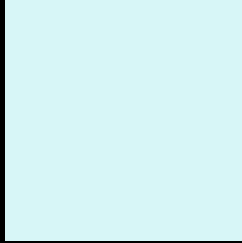
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.7686, 87.0740, 100.7038 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

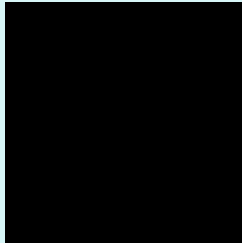
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 77.7686, 87.0740, 100.7038**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.7686, 87.0740, 100.7038.



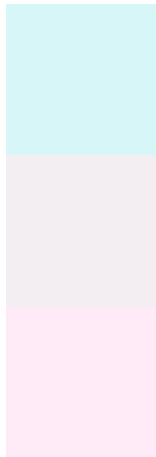
This preview shows how white text looks on a background with the XYZ color 77.7686, 87.0740,

100.7038.

# 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

77.7686, 87.0740, 100.7038

### Protanopia

83.5637, 86.6146, 96.3184

### Deuteranopia

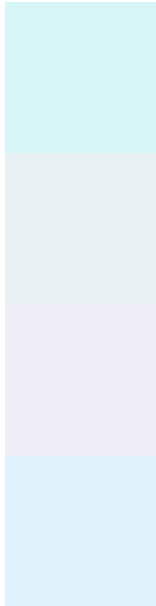
87.6061, 86.8829, 100.9597



## Tritanopia

81.1662, 86.8930, 107.1019

# Trichromacy



## Original Color

77.7686, 87.0740, 100.7038

## Protanomaly

81.3887, 86.7659, 98.0458

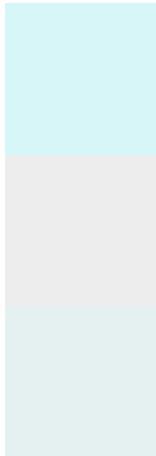
## Deuteranomaly

83.4530, 86.4516, 101.0953

## Tritanomaly

79.7455, 86.6591, 104.6193

# Monochromacy



## Original Color

77.7686, 87.0740, 100.7038

## Achromatopsia

80.4953, 84.6873, 92.2245

## Achromatomaly

79.3504, 85.3291, 95.5070

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.7686, 87.0740, 100.7038 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(215, 246, 247)` looks like.

```
.text, #text, p{  
    color:rgb(215, 246, 247)  
}
```

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(215, 246, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 246, 247) }
```

## Border

The CSS property to change the border of an element to XYZ 77.7686, 87.0740, 100.7038 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(215, 246, 247) }
```



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

```
.border{ border-color:rgb(215, 246, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 246, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 246, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 246, 247);  
box-shadow:4px 4px 4px 4px rgb(215, 246,  
247) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.7686, 87.0740, 100.7038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 246, 247) }
```

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

```
.background{ background-color: rgb(215,  
246, 247) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor