

# Converting Colors

XYZ(69.6367, 80.0887, 90.0975)

Have a look what the booklet for  
XYZ(69.6367, 80.0887, 90.0975)  
contains.

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# Color

**XYZ(69.6813, 80.0105,  
90.3682)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8EFEB
RGB	200, 239, 235
RGB Percent	78%, 94%, 92%
CMY	0.2157, 0.0627, 0.0784
CMYK	0.16, 0.00, 0.02, 0.06
HSL	174°, 55%, 86%
HSV	174°, 16%, 94%
XYZ	69.6813, 80.0105, 90.3682
YIQ	226.8830, -21.9600, -9.5120

# Conversions

## Conversions Part 2

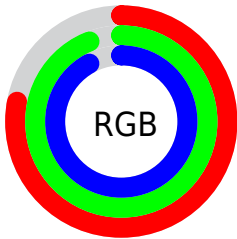
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	200, 221, 239
Decimal	13168619
CIE Lab	91.69, -13.33, -2.28
CIE LCh	92, 13.526, 189.709
Yxy	80.0105, 0.2903, 0.3333
Android (android.graphics.Color)	4291358699 (0xFFC8EFEB)
YUV	226.8830, 4.0017, -23.5764
Hunter-Lab	89.4486, -17.4818, 2.7145

# Details

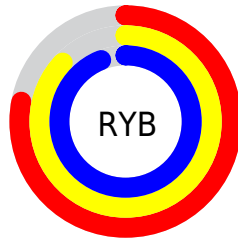
The XYZ color **69.6813, 80.0105, 90.3682** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **67.1528, 64.0211, 65.9482**, and the grayscale version is **72.9138, 76.7110, 83.5382**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **36.9242, 43.2326, 49.0464** is the 20% darker color. If you saturate the color by 10%, you get **63.4390, 76.8353, 88.2401**, and if you desaturate by 10%, it is **76.9309, 83.7087, 92.5723**.

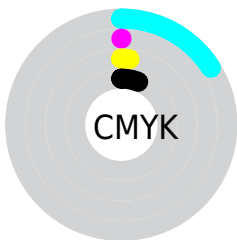
# Distribution



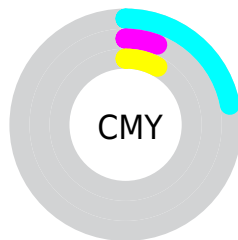
- Red (78%)
- Green (94%)
- Blue (92%)



- Red (78%)
- Yellow (87%)
- Blue (94%)



- Cyan (16%)
- Magenta (0%)
- Yellow (2%)
- Black (6%)



- Cyan (22%)
- Magenta (6%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 69.6813, 80.0105, 90.3682 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 69.6813, 80.0105, 90.3682 by changing the saturation by 10% instead.



69.6813, 80.0105,  
90.3682

69.6813, 80.0105,  
90.3682

448.7141,  
494.9682, 549.8288

51.5454, 59.7270,  
67.7106

117.7829,  
133.3805, 149.7897

36.8657, 43.1986,  
49.1971

148.4793,  
167.2358, 187.3908

25.2767, 30.0410,  
34.4092

184.0933,  
206.3838, 230.8100

16.4132, 19.8697,  
22.9282

224.9902,  
251.2089, 280.4661

9.9097, 12.3004,  
14.3357

271.5354,  
302.0955, 336.7774

5.4009, 6.9486,  
8.2131

324.0942,

2.5215, 3.4300,

359.4280, 400.1627

4.1419

383.0320,  
423.5907, 471.0403

■ 0.9061, 1.3601,  
1.7035

■ 0.0000, 0.1870,  
0.3631

■ 69.6813, 80.0105,  
90.3682

■ 69.6813, 80.0105,  
90.3682

■ 63.4390, 76.8353,  
88.2401

■ 76.9309, 83.7087,  
92.5723

■ 58.1509, 74.1493,  
86.1804

■ 85.2241, 87.9422,  
94.8492

■ 53.7693, 71.9300,  
84.1885

■ 88.1893, 89.4284,  
96.9025

■ 50.2398, 70.1495,  
82.2616

■ 88.5610, 89.5771,  
98.8602

■ 47.5022, 68.7767,  
80.3969

■ 88.9378, 89.7278,  
100.8440

■ 45.4883, 67.7763,  
78.5911

■ 89.3195, 89.8805,  
102.8541

■ 44.1181, 67.1073,  
76.8404

■ 89.7062, 90.0352,  
104.8906

■ 43.2922, 66.7183,  
75.1398

■ 90.0980, 90.1919,  
106.9535

■ 43.0661, 66.6151,  
74.5237

■ 90.1579, 90.2159,  
107.2693

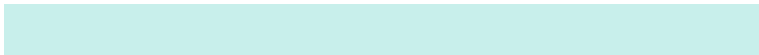
# Harmonies

## Analogous

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



69.9811, 80.0105, 80.6806



69.6813, 80.0105, 90.3682



71.0471, 80.0105, 99.8565

# Triad

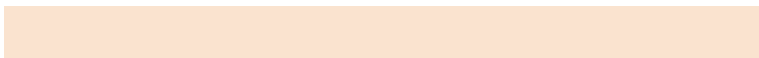
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



69.6813, 80.0105, 90.3682



80.3744, 80.0105, 102.6008



78.3764, 80.0105, 70.4526

# Complementary

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



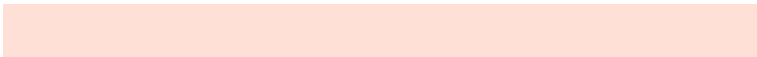
69.6813, 80.0105, 90.3682



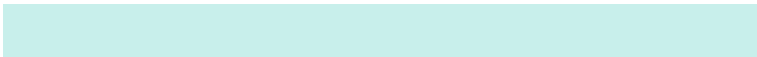
67.1528, 64.0211, 65.9482

# 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.



81.2773, 80.0105, 75.5114



69.6813, 80.0105, 90.3682



82.4549, 80.0105, 93.8886

# Square

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



69.6813, 80.0105, 90.3682



77.1742, 80.0105, 107.2640



82.7903, 80.0105, 83.9464



74.9320, 80.0105, 69.6667

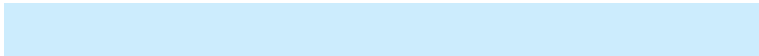


# Rectangle

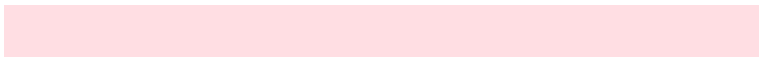
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



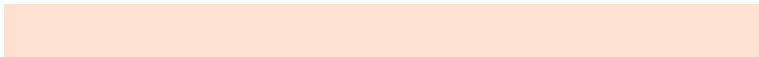
69.6813, 80.0105, 90.3682



72.7435, 80.0105, 104.6133



82.7903, 80.0105, 83.9464



79.4503, 80.0105, 71.6905

# Sweetspot

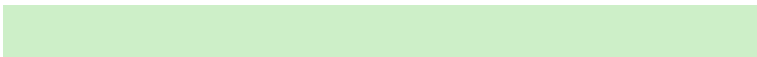
The Sweet Spot groups the original color and five complimentary colors.



69.6836, 80.0138, 90.3700



90.3038, 97.5775, 107.5818



66.3471, 78.8217, 66.3622



19.1912, 20.8155, 22.9877



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

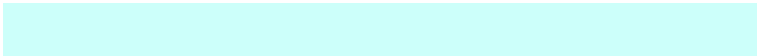


# Same Dimension

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



69.6836, 80.0138, 90.3700



77.8804, 91.2448, 103.7569



66.0709, 71.8522, 92.0517



16.1734, 17.8994, 19.9358



23.8268, 36.8227, 41.3322



2.0022, 3.0713, 3.5437



# Inverse Universe

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



67.1528, 64.0211, 65.9482



74.3706, 69.0608, 69.8844



70.3124, 71.0989, 64.6626



15.8387, 15.7852, 16.7069



19.7877, 10.1875, 1.5326

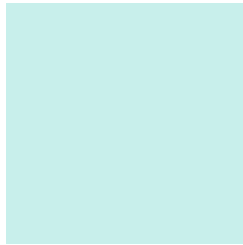


1.6680, 0.8563, 0.2427



# Previews

## White Background



This preview shows how the XYZ color 69.6813, 80.0105, 90.3682 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

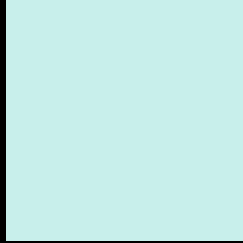
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 69.6813, 80.0105, 90.3682 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

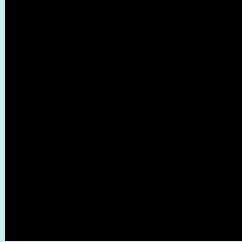
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

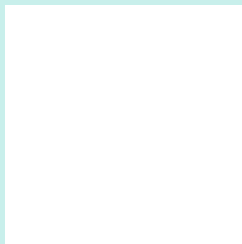
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 69.6813, 80.0105, 90.3682

## Background



This preview shows how black text looks on a background with the XYZ color 69.6813, 80.0105, 90.3682.



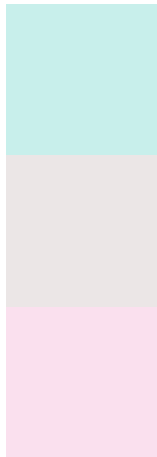
This preview shows how white text looks on a background with the XYZ color 69.6813, 80.0105,

90.3682.

# 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

69.6813, 80.0105, 90.3682

### Protanopia

76.8407, 79.9690, 86.2485

### Deuteranopia

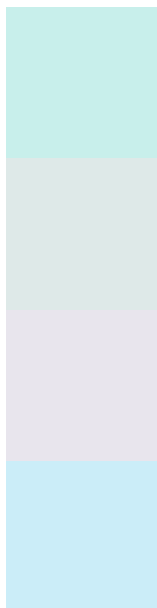
81.5126, 79.8083, 91.9973



## Tritanopia

72.9473, 80.0483, 106.2139

# Trichromacy



## Original Color

69.6813, 80.0105, 90.3682

## Protanomaly

73.8286, 79.6336, 87.8236

## Deuteranomaly

76.5841, 79.3089, 91.3925

## Tritanomaly

71.8561, 80.0422, 100.4694

# Monochromacy



## Original Color

69.6813, 80.0105, 90.3682

## Achromatopsia

73.0128, 76.8151, 83.6517

## Achromatomaly

71.4741, 77.6167, 86.0773

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 69.6813, 80.0105, 90.3682 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(200, 239, 235)` looks like.

```
.text, #text, p{  
    color:rgb(200, 239, 235)  
}
```

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(200, 239, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 239, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 69.6813, 80.0105, 90.3682 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(200, 239, 235) }
```



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

```
.border{ border-color:rgb(200, 239, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 239, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 239, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 239, 235);  
box-shadow:4px 4px 4px 4px rgb(200, 239,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 69.6813, 80.0105, 90.3682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 239, 235) }
```

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

```
.background{ background-color: rgb(200,  
239, 235) }
```

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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