

Converting Colors

XYZ(0.3147, 0.2413, 0.1766)

Have a look what the booklet for
XYZ(0.3147, 0.2413, 0.1766)
contains.

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Color

XYZ(0.3128, 0.2387, 0.1732)

Conversions

Conversions Part 1

Format	Color
Hex	110505
RGB	17, 5, 5
RGB Percent	7%, 2%, 2%
CMY	0.9333, 0.9804, 0.9804
CMYK	0.00, 0.71, 0.71, 0.93
HSL	0°, 55%, 4%
HSV	0°, 71%, 7%
XYZ	0.3128, 0.2387, 0.1732
YIQ	8.5880, 7.1520, 2.5440

Conversions

Conversions Part 2

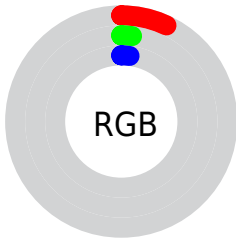
Format	Color
RYB	17, 5, 5
Decimal	1115397
CIELab	2.16, 3.52, 1.24
CIElCh	2, 3.732, 19.410
Yxy	0.2387, 0.4316, 0.3294
Android (android.graphics.Color)	4279305477 (0xFF110505)
YUV	8.5880, -1.7689, 7.3773
Hunter-Lab	4.8857, 2.8783, 1.3181

Details

The XYZ color **0.3128, 0.2387, 0.1732** is a dark color, and the websafe version is hex **000000**. A complement of this color would be **0.3641, 0.4734, 0.6023**, and the grayscale version is **0.2481, 0.2611, 0.2843**.

A 20% lighter version of the original color is **3.5850, 3.5365, 3.6256**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **0.2851, 0.1981, 0.1180**, and if you desaturate by 10%, it is **0.3406, 0.2793, 0.2284**.

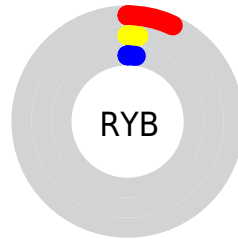
Distribution



Red (7%)

Green (2%)

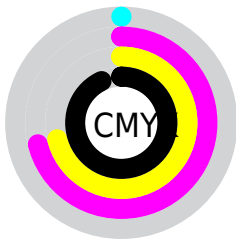
Blue (2%)



Red (7%)

Yellow (2%)

Blue (2%)

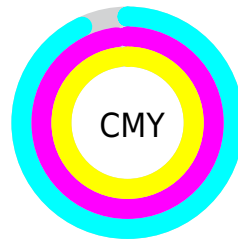


Cyan (0%)

Magenta (71%)

Yellow (71%)

Black (93%)



Cyan (93%)

Magenta (98%)

Yellow (98%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 0.3128, 0.2387, 0.1732 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 0.3128, 0.2387, 0.1732 by changing the saturation by 10% instead.

■ 0.3128, 0.2387,
0.1732

■ 0.3128, 0.2387,
0.1732

■ 78.7985, 81.0550,
86.5060

■ 0.0000, 0.0000,
0.0000

■ 3.6045, 3.5589,
3.6600

■ 7.1520, 7.1545,
7.4462

■ 12.4887, 12.6012,
13.2178

■ 19.9801, 20.2834,
21.3933

■ 29.9914, 30.5855,
32.3914

■ 42.8880, 43.8919,

46.6305

■ 59.0352, 60.5869,
64.5292

■ 0.3128, 0.2387,
0.1732

■ 0.3128, 0.2387,
0.1732

■ 0.2851, 0.1981,
0.1180

■ 0.3406, 0.2793,
0.2284

■ 0.2573, 0.1575,
0.0628

■ 0.3683, 0.3199,
0.2836

■ 0.2311, 0.1192,
0.0108

■ 0.3961, 0.3606,
0.3388

■ 0.4253, 0.4033,
0.3969

■ 0.4574, 0.4503,
0.4607

■ 0.4924, 0.5015,
0.5303

■ 0.5304, 0.5570,
0.6057

■ 0.5714, 0.6170,
0.6872

■ 0.6155, 0.6816,
0.7749

Harmonies

Analogous

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



0.3164, 0.2387, 0.3079



0.3128, 0.2387, 0.1732



0.2862, 0.2387, 0.0618

Triad

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



0.3128, 0.2387, 0.1732



0.1577, 0.2387, 0.0901



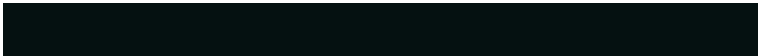
0.2101, 0.2387, 0.5164

Complementary

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



0.3128, 0.2387, 0.1732



0.3641, 0.4734, 0.6023

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.



0.1676, 0.2387, 0.4580



0.3128, 0.2387, 0.1732



0.1373, 0.2387, 0.2120

Square

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



0.3128, 0.2387, 0.1732



0.1966, 0.2387, 0.0138



0.1410, 0.2387, 0.3466



0.2572, 0.2387, 0.5060

Rectangle

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



0.3128, 0.2387, 0.1732



0.2589, 0.2387, 0.0157



0.1410, 0.2387, 0.3466



0.1948, 0.2387, 0.5041

Sweetspot

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



0.3128, 0.2387, 0.1732



0.6809, 0.6626, 0.6699



0.3865, 0.2682, 0.5615



0.3185, 0.3122, 0.3181



25.0241, 26.3273, 28.6705



0.3741, 0.3936, 0.4286

Same Dimension

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



0.3128, 0.2387, 0.1732



0.4085, 0.2639, 0.1283



0.3782, 0.3694, 0.1950



0.2082, 0.2139, 0.2280



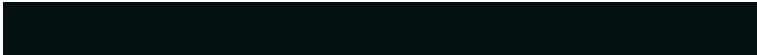
2.6281, 1.3551, 0.1230



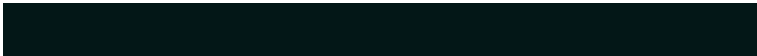
23.5271, 12.1293, 1.1012

Inverse Universe

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



0.3641, 0.4734, 0.6023



0.5026, 0.6945, 0.9156



0.2834, 0.3120, 0.5754



0.2111, 0.2273, 0.2524



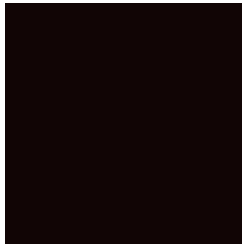
3.4281, 5.0159, 6.8162



30.6890, 44.9024, 61.0215

Previews

White Background



This preview shows how the XYZ color 0.3128, 0.2387, 0.1732 looks on a white background.

Color Contrast Check

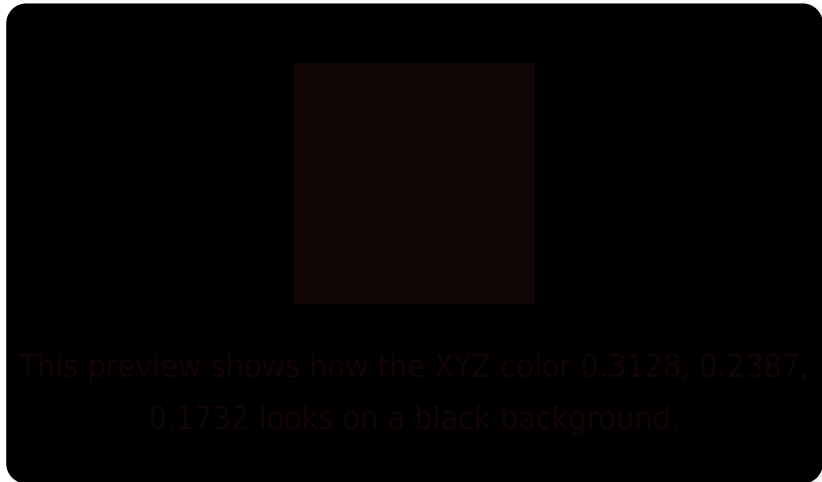
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

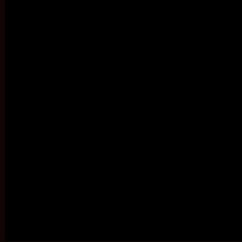
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 0.3128, 0.2387, 0.1732

Background



This preview shows how black text looks on a background with the XYZ color 0.3128, 0.2387, 0.1732.

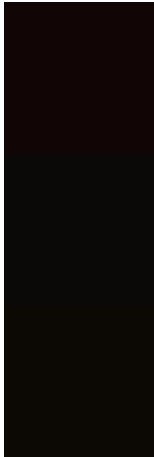


This preview shows how white text looks on a background with the XYZ color 0.3128, 0.2387, 0.1732.

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

0.3128, 0.2387, 0.1732

Protanopia

0.2612, 0.2752, 0.2404

Deuteranopia

0.2712, 0.2823, 0.1551



Tritanopia

0.3128, 0.2387, 0.1732

Trichromacy



Original Color

0.3128, 0.2387, 0.1732

Protanomaly

0.2857, 0.2724, 0.2098

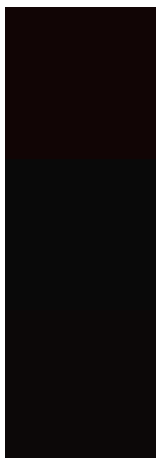
Deuteranomaly

0.2899, 0.2758, 0.1528

Tritanomaly

0.3128, 0.2387, 0.1732

Monochromacy



Original Color

0.3128, 0.2387, 0.1732

Achromatopsia

0.2597, 0.2732, 0.2975

Achromatomaly

0.2823, 0.2694, 0.2668

CSS Examples

Text

The CSS property to change the color of the text to XYZ 0.3128, 0.2387, 0.1732 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(17, 5, 5)` looks like.

```
.text, #text, p{  
    color:rgb(17, 5, 5)  
}
```

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(17, 5, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 5, 5) }
```

Border

The CSS property to change the border of an element to XYZ 0.3128, 0.2387, 0.1732 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(17, 5, 5) }
```

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

```
.border{ border-color:rgb(17, 5, 5) }
```

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

Here you see how a box with a 4 pixel `rgb(17, 5, 5)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(17, 5, 5); -webkit-box-shadow:4px  
4px 4px 4px rgb(17, 5, 5); box-shadow:4px  
4px 4px 4px rgb(17, 5, 5) }
```


Background

The CSS property to change the background color of an element to XYZ 0.3128, 0.2387, 0.1732 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 5, 5) }
```

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

```
.background{ background-color: rgb(17, 5,  
5) }
```

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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