

Converting Colors

XYZ(16.1400, 20.4312, 36.6496)

Have a look what the booklet for
XYZ(16.1400, 20.4312, 36.6496)
contains.

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Color

**XYZ(16.1792, 20.4590,
36.8145)**

Conversions

Conversions Part 1

Format	Color
Hex	2D87A1
RGB	45, 135, 161
RGB Percent	18%, 53%, 63%
CMY	0.8235, 0.4706, 0.3686
CMYK	0.72, 0.16, 0.00, 0.37
HSL	193°, 56%, 40%
HSV	193°, 72%, 63%
XYZ	16.1792, 20.4590, 36.8145
YIQ	111.0540, -61.9860, -10.9940

Conversions

Conversions Part 2

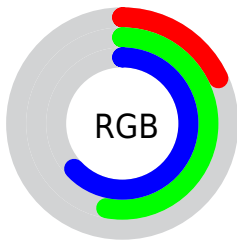
Format	Color
R_{YB}	45, 96, 161
Decimal	2983841
CIE _{Lab}	52.35, -17.52, -21.48
CIE _{LCh}	52, 27.720, 230.805
Yxy	20.4590, 0.2203, 0.2785
Android (android.graphics.Color)	4281173921 (0xFF2D87A1)
YUV	111.0540, 24.6234, -57.9294
Hunter-Lab	45.2316, -15.3065, -16.5946

Details

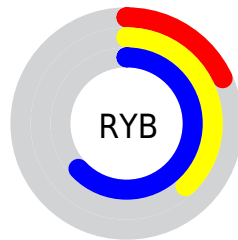
The XYZ color **16.1792, 20.4590, 36.8145** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **17.4257, 12.2742, 3.9342**, and the grayscale version is **15.0697, 15.8545, 17.2656**.

A 20% lighter version of the original color is **36.4413, 44.0501, 71.5476**, and **6.0088, 7.6011, 15.6185** is the 20% darker color. If you saturate the color by 10%, you get **15.1064, 19.1715, 36.6229**, and if you desaturate by 10%, it is **17.5406, 21.9214, 37.0254**.

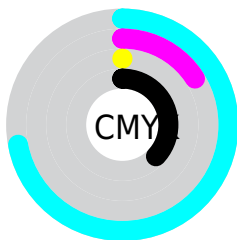
Distribution



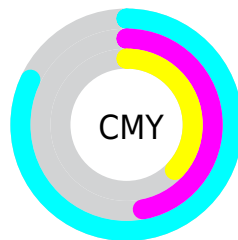
- Red (18%)
- Green (53%)
- Blue (63%)



- Red (18%)
- Yellow (38%)
- Blue (63%)



- Cyan (72%)
- Magenta (16%)
- Yellow (0%)
- Black (37%)



- Cyan (82%)
- Magenta (47%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.1792, 20.4590, 36.8145 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 16.1792, 20.4590, 36.8145 by changing the saturation by 10% instead.

■ 16.1792, 20.4590,
36.8145

■ 16.1792, 20.4590,
36.8145

■ 223.6465,
254.3892, 347.6512

■ 9.7427, 12.7291,
24.7692

■ 36.4640, 44.1854,
71.4705

■ 5.2896, 7.2423,
15.6878

■ 51.0429, 60.9507,
94.9184

■ 2.4547, 3.6141,
9.1515

■ 69.0668, 81.4967,
123.0042

■ 0.8725, 1.4601,
4.7420

■ 90.9009, 106.2076,
156.1464

■ 0.0000, 0.2604,
2.0406

■ 116.9105,
135.4679, 194.7637

■ 0.0000, 0.0000,
0.5801

■ 147.4611,

■ 0.0000, 0.0000,

169.6620, 239.2746

0.0000

182.9180,
209.1743, 290.0976

■ 16.1792, 20.4590,
36.8145

■ 16.1792, 20.4590,
36.8145

■ 15.1064, 19.1715,
36.6229

■ 17.5406, 21.9214,
37.0254

■ 14.2873, 18.0394,
36.4476

■ 19.2162, 23.5710,
37.2555

■ 13.7557, 17.2185,
36.3171

■ 21.2310, 25.4213,
37.5065

■ 23.6069, 27.4838,
37.7793

■ 26.3637, 29.7690,
38.0751

■ 29.5200, 32.2866,
38.3947

■ 33.0930, 35.0458,
38.7390

■ 37.0987, 38.0551,
39.1087

■ 41.5526, 41.3226,
39.5046

Harmonies

Analogous

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



14.7529, 20.4590, 28.3392



16.1792, 20.4590, 36.8145



18.5818, 20.4590, 41.6754

Triad

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



16.1792, 20.4590, 36.8145



25.3826, 20.4590, 24.8837



17.5605, 20.4590, 10.5763

Complementary

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



16.1792, 20.4590, 36.8145



17.4257, 12.2742, 3.9342

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.



20.3360, 20.4590, 10.0833



16.1792, 20.4590, 36.8145



25.0409, 20.4590, 17.1465

Square

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



16.1792, 20.4590, 36.8145



24.0171, 20.4590, 33.7600



23.1246, 20.4590, 12.1798



15.4945, 20.4590, 13.7460

Rectangle

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



16.1792, 20.4590, 36.8145



20.4929, 20.4590, 41.5590



23.1246, 20.4590, 12.1798



18.4347, 20.4590, 10.1286

Sweetspot

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



16.1799, 20.4597, 36.8150



47.0202, 53.1550, 68.1682



14.9375, 26.4921, 10.1438



10.0276, 11.4249, 14.9204



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



16.1799, 20.4597, 36.8150



26.1849, 33.1725, 65.4094



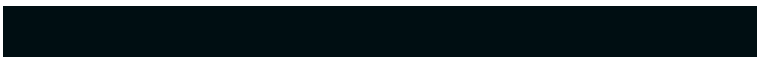
10.2310, 8.5621, 34.8321



7.1408, 7.7407, 9.0208



11.0174, 13.8142, 29.0155



0.2630, 0.3532, 0.6202

Inverse Universe

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



20.0101, 11.2039, 24.0302



33.9109, 17.3189, 38.9897



22.9089, 23.2406, 5.7619



7.2961, 7.1749, 8.5455



14.7065, 7.2387, 16.1772



0.3249, 0.1585, 0.4236

Previews

White Background



This preview shows how the XYZ color 16.1792, 20.4590, 36.8145 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 16.1792, 20.4590, 36.8145 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 × Fail

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

XYZ 16.1792, 20.4590, 36.8145

Background



This preview shows how black text looks on a background with the XYZ color 16.1792, 20.4590, 36.8145.

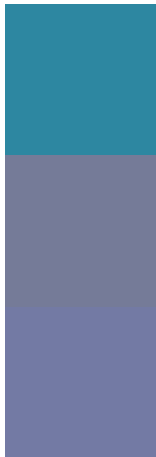


This preview shows how white text looks on a background with the XYZ color 16.1792, 20.4590,

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

16.1792, 20.4590, 36.8145

Protanopia

20.0866, 20.2148, 32.5489

Deuteranopia

20.7306, 20.2442, 37.9369



Tritanopia

15.0185, 20.4045, 31.1639

Trichromacy



Original Color

16.1792, 20.4590, 36.8145

Protanomaly

17.8202, 19.7694, 33.8870

Deuteranomaly

18.4167, 19.9967, 37.5394

Tritanomaly

15.3906, 20.3396, 33.2517

Monochromacy



Original Color

16.1792, 20.4590, 36.8145

Achromatopsia

15.1092, 15.8961, 17.3108

Achromatomaly

14.6094, 17.0442, 23.2887

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.1792, 20.4590, 36.8145 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(45, 135, 161)` looks like.

```
.text, #text, p{  
    color:rgb(45, 135, 161)  
}
```

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(45, 135, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 135, 161) }
```

Border

The CSS property to change the border of an element to XYZ 16.1792, 20.4590, 36.8145 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(45, 135, 161) }
```


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

```
.border{ border-color:rgb(45, 135, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 135, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 135, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 135, 161);  
box-shadow:4px 4px 4px 4px rgb(45, 135,  
161) }
```

Background

The CSS property to change the background color of an element to XYZ 16.1792, 20.4590, 36.8145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 135, 161) }
```

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

```
.background{ background-color: rgb(45, 135,  
161) }
```

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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