

Converting Colors

XYZ(12.2077, 16.6622, 24.0458)

Have a look what the booklet for
XYZ(12.2077, 16.6622, 24.0458)
contains.

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Color

**XYZ(12.2297, 16.7180,
24.0551)**

Conversions

Conversions Part 1

Format	Color
Hex	267D83
RGB	38, 125, 131
RGB Percent	15%, 49%, 51%
CMY	0.8510, 0.5098, 0.4863
CMYK	0.71, 0.05, 0.00, 0.49
HSL	184°, 55%, 33%
HSV	184°, 71%, 51%
XYZ	12.2297, 16.7180, 24.0551
YIQ	99.6710, -53.7780, -16.5780

Conversions

Conversions Part 2

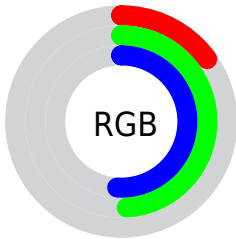
Format	Color
R_{YB}	38, 83, 131
Decimal	2522499
CIE Lab	47.90, -23.02, -10.73
CIE LCh	48, 25.397, 204.988
Yxy	16.7180, 0.2307, 0.3154
Android (android.graphics.Color)	4280712579 (0xFF267D83)
YUV	99.6710, 15.4452, -54.0855
Hunter-Lab	40.8877, -18.1632, -6.2602




Details

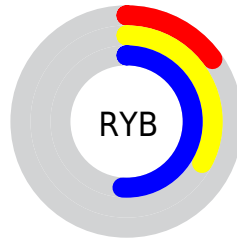
The XYZ color **12.2297, 16.7180, 24.0551** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **10.6111, 6.7671, 2.5812**, and the grayscale version is **12.0019, 12.6269, 13.7507**.




A 20% lighter version of the original color is **29.5019, 37.8429, 51.0969**, and **4.1074, 5.7781, 8.8814** is the 20% darker color. If you saturate the color by 10%, you get **11.7227, 16.2988, 24.0012**, and if you desaturate by 10%, it is **12.9087, 17.2279, 24.1180**.

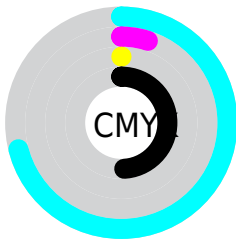
Distribution







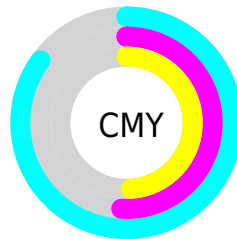
-  Red (15%)
-  Green (49%)
-  Blue (51%)






-  Red (15%)
-  Yellow (33%)
-  Blue (51%)



-  Cyan (71%)
-  Magenta (5%)
-  Yellow (0%)
-  Black (49%)



-  Cyan (85%)
-  Magenta (51%)
-  Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2297, 16.7180, 24.0551 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 12.2297, 16.7180, 24.0551 by changing the saturation by 10% instead.

■ 12.2297, 16.7180,
24.0551

■ 12.2297, 16.7180,
24.0551

■ 199.6591,
233.5420, 286.3945

■ 6.9736, 10.0336,
15.1619

■ 29.5260, 37.8403,
51.0651

■ 3.4918, 5.4213,
8.7852

■ 42.2970, 53.0470,
70.0189

■ 1.4189, 2.4965,
4.5065

■ 58.3036, 71.8633,
93.1634

■ 0.2696, 0.8749,
1.9071

■ 77.9112, 94.6735,
120.9171

■ 0.0000, 0.0000,
0.4972

■ 101.4852,
121.8621, 153.6985

■ 0.0000, 0.0000,
0.0000

■ 129.3910,

153.8135, 191.9262

161.9938,
190.9120, 236.0186

■ 12.2297, 16.7180,
24.0551

■ 12.2297, 16.7180,
24.0551

■ 11.7227, 16.2988,
24.0012

■ 12.9087, 17.2279,
24.1180

■ 11.3674, 15.9589,
23.9543

■ 13.7743, 17.8350,
24.1896

■ 11.1241, 15.6933,
23.9159

■ 14.8411, 18.5472,
24.2708

■ 16.1220, 19.3711,
24.3624

■ 17.6289, 20.3128,
24.4647

■ 19.3725, 21.3780,
24.5784

■ 21.3630, 22.5718,
24.7039

■ 23.6102, 23.8994,
24.8417

■ 26.1230, 25.3652,
24.9922

Harmonies

Analogous

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



11.9013, 16.7180, 17.1253



12.2297, 16.7180, 24.0551



13.4992, 16.7180, 30.5819

Triad

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



12.2297, 16.7180, 24.0551



19.7686, 16.7180, 26.4227



16.2771, 16.7180, 8.3223

Complementary

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



12.2297, 16.7180, 24.0551



10.6111, 6.7671, 2.5812

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.



18.5476, 16.7180, 9.7171



12.2297, 16.7180, 24.0551



20.6830, 16.7180, 19.3251

Square

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



12.2297, 16.7180, 24.0551



17.8199, 16.7180, 32.1626



20.2161, 16.7180, 13.3866



14.1046, 16.7180, 9.0112

Rectangle

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



12.2297, 16.7180, 24.0551



14.7784, 16.7180, 33.2692



20.2161, 16.7180, 13.3866



17.0559, 16.7180, 8.5508

Sweetspot

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



12.2302, 16.7186, 24.0555



31.4252, 36.2865, 43.8009



9.3457, 16.8170, 5.0060



7.1620, 8.3525, 10.1874



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.2302, 16.7186, 24.0555



20.5822, 28.8077, 42.9288



7.7543, 7.7668, 22.5635



4.7766, 5.2288, 5.9583



10.9505, 15.4489, 23.5415



0.0399, 0.0574, 0.0822

Inverse Universe

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



13.7553, 7.6927, 20.1625



23.5987, 11.9537, 35.0049



13.2953, 12.1357, 3.4759



4.8453, 4.7578, 5.7975



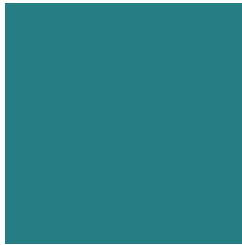
12.7054, 6.1465, 18.8190



0.0450, 0.0217, 0.0703

Previews

White Background



This preview shows how the XYZ color 12.2297, 16.7180, 24.0551 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 × Fail

Black Background



This preview shows how the XYZ color 12.2297, 16.7180, 24.0551 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

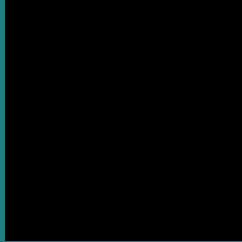
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2297, 16.7180, 24.0551

Background



This preview shows how black text looks on a background with the XYZ color 12.2297, 16.7180, 24.0551.



This preview shows how white text looks on a background with the XYZ color 12.2297, 16.7180,

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

12.2297, 16.7180, 24.0551

Protanopia

16.0514, 16.4631, 21.0706

Deuteranopia

16.8184, 16.4505, 24.8431



Tritanopia

12.4559, 16.6157, 25.4723

Trichromacy



Original Color

12.2297, 16.7180, 24.0551

Protanomaly

13.8735, 16.1602, 22.1267

Deuteranomaly

14.2021, 15.9334, 24.5172

Tritanomaly

12.3474, 16.5679, 25.1014

Monochromacy



Original Color

12.2297, 16.7180, 24.0551

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

11.3984, 13.6628, 17.0753

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2297, 16.7180, 24.0551 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(38, 125, 131)` looks like.

```
.text, #text, p{  
    color:rgb(38, 125, 131)  
}
```

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(38, 125, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(38, 125, 131) }
```

Border

The CSS property to change the border of an element to XYZ 12.2297, 16.7180, 24.0551 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(38, 125, 131) }
```


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

```
.border{ border-color:rgb(38, 125, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(38, 125, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(38, 125, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(38, 125, 131);  
box-shadow:4px 4px 4px 4px rgb(38, 125,  
131) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2297, 16.7180, 24.0551 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(38, 125, 131) }
```

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

```
.background{ background-color: rgb(38, 125,  
131) }
```

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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