

Converting Colors

XYZ(12.3349, 12.8836, 20.4123)

Have a look what the booklet for
XYZ(12.3349, 12.8836, 20.4123)
contains.

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Color

**XYZ(12.3487, 12.8613,
20.5705)**

Conversions

Conversions Part 1

Format	Color
Hex	59657B
RGB	89, 101, 123
RGB Percent	35%, 40%, 48%
CMY	0.6510, 0.6039, 0.5176
CMYK	0.28, 0.18, 0.00, 0.52
HSL	219°, 16%, 42%
HSV	219°, 28%, 48%
XYZ	12.3487, 12.8613, 20.5705
YIQ	99.9200, -14.2140, 4.2980

Conversions

Conversions Part 2

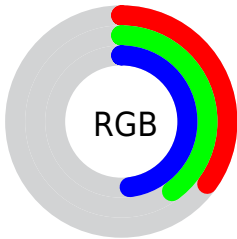
Format	Color
R_{YB}	89, 98, 123
Decimal	5858683
CIE Lab	42.55, 0.85, -13.81
CIE LCh	43, 13.832, 273.537
Yxy	12.8613, 0.2697, 0.2809
Android (android.graphics.Color)	4284048763 (0xFF59657B)
YUV	99.9200, 11.3784, -9.5768
Hunter-Lab	35.8627, -1.2962, -8.9044

Details

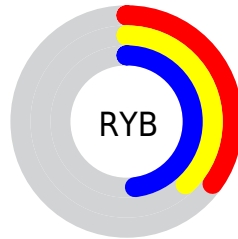
The XYZ color **12.3487, 12.8613, 20.5705** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **15.6562, 16.3013, 11.7729**, and the grayscale version is **12.0676, 12.6961, 13.8260**.

A 20% lighter version of the original color is **29.8799, 31.1665, 45.5152**, and **3.5100, 3.6250, 6.9933** is the 20% darker color. If you saturate the color by 10%, you get **10.5299, 10.8318, 20.2749**, and if you desaturate by 10%, it is **14.4404, 15.1432, 20.9009**.

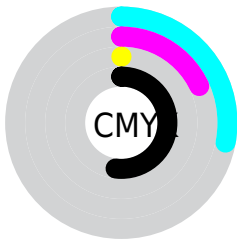
Distribution



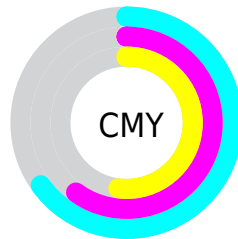
- Red (35%)
- Green (40%)
- Blue (48%)



- Red (35%)
- Yellow (38%)
- Blue (48%)



- Cyan (28%)
- Magenta (18%)
- Yellow (0%)
- Black (52%)



- Cyan (65%)
- Magenta (60%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3487, 12.8613, 20.5705 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 12.3487, 12.8613, 20.5705 by changing the saturation by 10% instead.

■ 12.3487, 12.8613,
20.5705

■ 12.3487, 12.8613,
20.5705

200.4234,
210.0268, 267.6927

■ 7.0555, 7.3331,
12.6222

■ 29.7400, 31.0544,
45.2431

■ 3.5435, 3.6713,
7.0413

■ 42.5688, 44.4881,
62.8045

■ 1.4473, 1.4914,
3.4091

■ 58.6402, 61.3257,
84.4074

■ 0.2895, 0.2827,
1.3071

■ 78.3195, 81.9516,
110.4703

■ 0.0000, 0.0000,
0.0676

■ 101.9722,
106.7503, 141.4117

■ 0.0000, 0.0000,
0.0000

129.9635,

136.1062, 177.6502

162.6588,
170.4036, 219.6044

■ 12.3487, 12.8613,
20.5705

■ 12.3487, 12.8613,
20.5705

■ 10.5299, 10.8318,
20.2749

■ 14.4404, 15.1432,
20.9009

■ 8.9710, 9.0440,
20.0119

■ 16.8149, 17.6847,
21.2663

■ 7.6593, 7.4883,
19.7808

■ 19.4832, 20.4946,
21.6681

■ 6.5810, 6.1541,
19.5801

■ 22.4551, 23.5810,
22.1072

■ 5.7205, 5.0298,
19.4084

■ 25.7402, 26.9513,
22.5846

■ 5.0600, 4.1024,
19.2642

■ 29.3476, 30.6129,
23.1012

■ 4.5611, 3.3479,
19.1449

■ 33.2858, 34.5727,
23.6579

■ 4.4542, 3.1881,
19.1197

■ 37.5632, 38.8375,
24.2557

■ 42.1879, 43.4139,
24.8953

Harmonies

Analogous

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



11.3503, 12.8613, 19.8148



12.3487, 12.8613, 20.5705



13.3687, 12.8613, 19.3705

Triad

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



12.3487, 12.8613, 20.5705



13.9773, 12.8613, 11.0583



10.5118, 12.8613, 11.5921

Complementary

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



12.3487, 12.8613, 20.5705



15.6562, 16.3013, 11.7729

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.



11.1471, 12.8613, 9.7329



12.3487, 12.8613, 20.5705



13.1420, 12.8613, 9.4569

Square

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



12.3487, 12.8613, 20.5705



14.3421, 12.8613, 13.6516



12.1007, 12.8613, 9.0084



10.3259, 12.8613, 14.3619

Rectangle

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



12.3487, 12.8613, 20.5705



13.9130, 12.8613, 17.7108



12.1007, 12.8613, 9.0084



10.6780, 12.8613, 10.8538

Sweetspot

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



12.3491, 12.8618, 20.5708



29.8610, 31.4031, 38.0442



14.0467, 17.4275, 17.5284



6.8955, 7.2499, 8.9390



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.3491, 12.8618, 20.5708



20.0477, 20.7370, 36.5026



11.7163, 10.9304, 20.2313



3.9027, 4.1036, 5.0296



4.6030, 3.2884, 19.7774



21.2232, 14.2191, 94.0958

Inverse Universe

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



14.0901, 12.2957, 13.9432



23.7401, 19.7045, 22.4086



16.4211, 18.7717, 12.2095



4.0513, 4.0363, 4.4679



8.9067, 4.5388, 2.7996



42.1156, 21.5026, 11.4050

Previews

White Background



This preview shows how the XYZ color 12.3487, 12.8613, 20.5705 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 12.3487, 12.8613, 20.5705 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

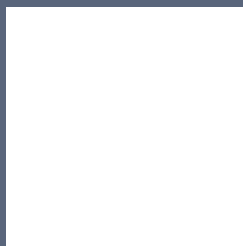
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3487, 12.8613, 20.5705

Background



This preview shows how black text looks on a background with the XYZ color 12.3487, 12.8613, 20.5705.

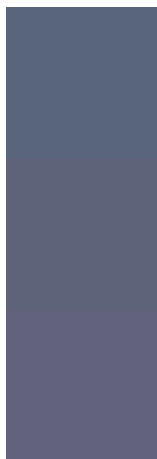


This preview shows how white text looks on a background with the XYZ color 12.3487, 12.8613,

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

12.3487, 12.8613, 20.5705

Protanopia

12.6940, 12.7617, 20.2066

Deuteranopia

13.0428, 12.7873, 20.8495



Tritanopia

11.6500, 12.8744, 16.9099

Trichromacy



Original Color

12.3487, 12.8613, 20.5705

Protanomaly

12.5842, 12.8466, 20.2287

Deuteranomaly

12.8192, 12.8118, 20.8661

Tritanomaly

11.8704, 12.8153, 18.0676

Monochromacy



Original Color

12.3487, 12.8613, 20.5705

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.0878, 12.6838, 15.9985

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3487, 12.8613, 20.5705 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(89, 101, 123) looks like.

```
.text, #text, p{  
    color:rgb(89, 101, 123)  
}
```

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(89, 101, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 101, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.3487, 12.8613, 20.5705 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(89, 101, 123) }
```


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

```
.border{ border-color:rgb(89, 101, 123) }
```

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

Here you see how a box with a 4 pixel rgb(89, 101, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 101, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 101, 123);  
box-shadow:4px 4px 4px 4px rgb(89, 101,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3487, 12.8613, 20.5705 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 101, 123) }
```

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

```
.background{ background-color: rgb(89, 101,  
123) }
```

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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