

Color of Gold-Silver-Copper Alloys

▼ Introduction

This application plots the colors of gold-silver-copper alloys on a ternary diagram.

A spreadsheet (attached to this workbook) contains experimental [CIE xyY](#) colorspace coordinates of gold-silver-copper alloys under a [C illuminant](#) with a 2° observer (Roberts & Clark, 1979). The color data is translated into the [CIE Lab](#) colorspace and plotted on a ternary diagram.

A ternary diagram is a non-standard Maple plot, but can be constructed using Maple's programmatic visualization tools.

Reference: ["The Color Characteristics of Gold Alloys", Roberts, E.F.I. & Clarke, K.M. Gold Bull \(1979\) 12: 9](#)

▼ Application Code and Visualization



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Color of Gold-Silver-Copper Alloys under a C Illuminant with a 2° Observer

