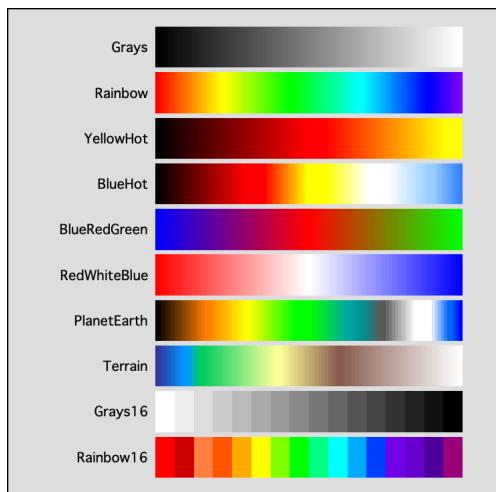


Chapter II-16 — Image Plots

Igor Pro 4-Compatible Color Tables

Igor Pro 4 supported 10 built-in color tables: Grays, Rainbow, YellowHot, BlueHot, BlueRedGreen, RedWhiteBlue, PlanetEarth, Terrain, Grays16, and Rainbow16. These color tables have 100 color levels except for Grays16 and Rainbow16, which only have 16 levels.



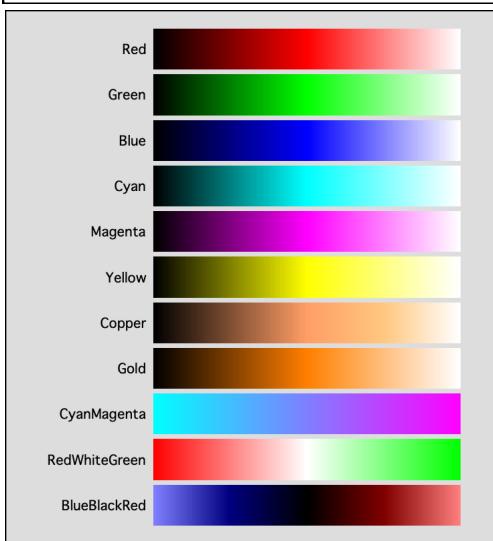
Igor Pro 5-Compatible Color Tables

Igor Pro 5 added 256-color versions of the eight 100-level color tables in Igor Pro 4 (Grays256, Rainbow256, etc.), new gradient color tables, and new special-purpose color tables.

Igor Pro 5 Gradient Color Tables

These are 256-color transitions between two or three colors.

Color Table Name	Colors	Notes
Red	256	Black → red → white.
Green	256	Black → green → white.
Blue	256	Black → blue → white.
Cyan	256	Black → cyan → white.
Magenta	256	Black → magenta → white.
Yellow	256	Black → yellow → white.
Copper	256	Black → copper → white.
Gold	256	Black → gold → white.
CyanMagenta	256	
RedWhiteGreen	256	
BlueBlackRed	256	



Igor Pro 5 Special-Purpose Color Tables

The special purpose color tables are ones that will find use for particular needs, such as coloring a digital elevation model (DEM) of topography or for spectroscopy. These color tables can have any number of color entries.

The following table summarizes the various special-purpose color tables.

Color Table Name	Colors	Notes
Geo	256	Popular mapping color table for elevations. Sea level is around 50%.
Geo32	32	Quantized to classify elevations. Sea level is around 50%.
LandAndSea	255	Rapid color changes above sea level, which is at exactly 50%. Ocean depths are blue-gray.
LandAndSea8	8	Quantized, sea level is at about 22%.
Relief	255	Slower color changes above sea level, which is at exactly 50%. Ocean depths are black.
Relief19	19	Quantized, sea level is at about 47.5%.
PastelsMap	301	Desaturated rainbow-like colors, having a sharp green→yellow color change at sea level, which is around 66.67%. Ocean depths are faded purple.
PastelsMap20	20	Quantized. Sea level is at about 66.67%.
Bathymetry9	9	Colors for ocean depths. Sea level is at 100%.
BlackBody	181	Red → Yellow → Blue colors calibrated to black body radiation colors (neglecting intensity). The color table range is from 1,000 K to 10,000 K. Each color table entry represents a 50 K interval.
Spectrum	201	Rainbow-like colors calibrated to the visible spectrum when the color table range is set from 380 to 780 nm (wavelength). Each color table entry represents 2nm. Colors do not completely fade to black at the ends of the color table.
SpectrumBlack	476	Rainbow-like colors calibrated to the visible spectrum when the color table range is set from 355 to 830 nm (wavelength). Each color table entry represents 1 nm. Colors fade to black at the ends of the color table.
Cycles	201	Ten grayscale cycles from 0 to 100% to 0%.
Fiddle	254	Some randomized colors for “fiddling” with an image to detect faint details in the image.
Pastels	256	Desaturated Rainbow.