| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ICC_Profile.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/color/ICC_ColorSpace.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/color/ICC_ProfileGray.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/color/ICC_Profile.html)    [**NO FRAMES**](http://docs.google.com/ICC_Profile.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#42ddq1a) |

## **java.awt.color**

Class ICC\_Profile

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.awt.color.ICC\_Profile**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Direct Known Subclasses:** [ICC\_ProfileGray](http://docs.google.com/java/awt/color/ICC_ProfileGray.html), [ICC\_ProfileRGB](http://docs.google.com/java/awt/color/ICC_ProfileRGB.html)

public class **ICC\_Profile**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

A representation of color profile data for device independent and device dependent color spaces based on the International Color Consortium Specification ICC.1:2001-12, File Format for Color Profiles, (see <http://www.color.org>).

An ICC\_ColorSpace object can be constructed from an appropriate ICC\_Profile. Typically, an ICC\_ColorSpace would be associated with an ICC Profile which is either an input, display, or output profile (see the ICC specification). There are also device link, abstract, color space conversion, and named color profiles. These are less useful for tagging a color or image, but are useful for other purposes (in particular device link profiles can provide improved performance for converting from one device's color space to another's).

ICC Profiles represent transformations from the color space of the profile (e.g. a monitor) to a Profile Connection Space (PCS). Profiles of interest for tagging images or colors have a PCS which is one of the two specific device independent spaces (one CIEXYZ space and one CIELab space) defined in the ICC Profile Format Specification. Most profiles of interest either have invertible transformations or explicitly specify transformations going both directions.

**See Also:**[ICC\_ColorSpace](http://docs.google.com/java/awt/color/ICC_ColorSpace.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.color.ICC_Profile)

| **Field Summary** | |
| --- | --- |
| static int | [**CLASS\_ABSTRACT**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_ABSTRACT)            Profile class is abstract. |
| static int | [**CLASS\_COLORSPACECONVERSION**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_COLORSPACECONVERSION)            Profile class is color space conversion. |
| static int | [**CLASS\_DEVICELINK**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_DEVICELINK)            Profile class is device link. |
| static int | [**CLASS\_DISPLAY**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_DISPLAY)            Profile class is display. |
| static int | [**CLASS\_INPUT**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_INPUT)            Profile class is input. |
| static int | [**CLASS\_NAMEDCOLOR**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_NAMEDCOLOR)            Profile class is named color. |
| static int | [**CLASS\_OUTPUT**](http://docs.google.com/java/awt/color/ICC_Profile.html#CLASS_OUTPUT)            Profile class is output. |
| static int | [**icAbsoluteColorimetric**](http://docs.google.com/java/awt/color/ICC_Profile.html#icAbsoluteColorimetric)            ICC Profile Rendering Intent: AbsoluteColorimetric. |
| static int | [**icCurveCount**](http://docs.google.com/java/awt/color/ICC_Profile.html#icCurveCount)            ICC Profile Constant: curveType count. |
| static int | [**icCurveData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icCurveData)            ICC Profile Constant: curveType data. |
| static int | [**icHdrAttributes**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrAttributes)            ICC Profile Header Location: device attributes. |
| static int | [**icHdrCmmId**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrCmmId)            ICC Profile Header Location: CMM for this profile. |
| static int | [**icHdrColorSpace**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrColorSpace)            ICC Profile Header Location: color space of data. |
| static int | [**icHdrCreator**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrCreator)            ICC Profile Header Location: profile creator. |
| static int | [**icHdrDate**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrDate)            ICC Profile Header Location: date profile was created. |
| static int | [**icHdrDeviceClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrDeviceClass)            ICC Profile Header Location: type of profile. |
| static int | [**icHdrFlags**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrFlags)            ICC Profile Header Location: various bit settings. |
| static int | [**icHdrIlluminant**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrIlluminant)            ICC Profile Header Location: profile illuminant. |
| static int | [**icHdrMagic**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrMagic)            ICC Profile Header Location: icMagicNumber. |
| static int | [**icHdrManufacturer**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrManufacturer)            ICC Profile Header Location: device manufacturer. |
| static int | [**icHdrModel**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrModel)            ICC Profile Header Location: device model number. |
| static int | [**icHdrPcs**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrPcs)            ICC Profile Header Location: PCS - XYZ or Lab only. |
| static int | [**icHdrPlatform**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrPlatform)            ICC Profile Header Location: primary platform. |
| static int | [**icHdrProfileID**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrProfileID)            ICC Profile Header Location: profile's ID. |
| static int | [**icHdrRenderingIntent**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrRenderingIntent)            ICC Profile Header Location: rendering intent. |
| static int | [**icHdrSize**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrSize)            ICC Profile Header Location: profile size in bytes. |
| static int | [**icHdrVersion**](http://docs.google.com/java/awt/color/ICC_Profile.html#icHdrVersion)            ICC Profile Header Location: format version number. |
| static int | [**icICCAbsoluteColorimetric**](http://docs.google.com/java/awt/color/ICC_Profile.html#icICCAbsoluteColorimetric)            ICC Profile Rendering Intent: ICC-AbsoluteColorimetric. |
| static int | [**icMediaRelativeColorimetric**](http://docs.google.com/java/awt/color/ICC_Profile.html#icMediaRelativeColorimetric)            ICC Profile Rendering Intent: Media-RelativeColorimetric. |
| static int | [**icPerceptual**](http://docs.google.com/java/awt/color/ICC_Profile.html#icPerceptual)            ICC Profile Rendering Intent: Perceptual. |
| static int | [**icRelativeColorimetric**](http://docs.google.com/java/awt/color/ICC_Profile.html#icRelativeColorimetric)            ICC Profile Rendering Intent: RelativeColorimetric. |
| static int | [**icSaturation**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSaturation)            ICC Profile Rendering Intent: Saturation. |
| static int | [**icSigAbstractClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigAbstractClass)            ICC Profile Class Signature: 'abst'. |
| static int | [**icSigAToB0Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigAToB0Tag)            ICC Profile Tag Signature: 'A2B0'. |
| static int | [**icSigAToB1Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigAToB1Tag)            ICC Profile Tag Signature: 'A2B1'. |
| static int | [**icSigAToB2Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigAToB2Tag)            ICC Profile Tag Signature: 'A2B2'. |
| static int | [**icSigBlueColorantTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBlueColorantTag)            ICC Profile Tag Signature: 'bXYZ'. |
| static int | [**icSigBlueMatrixColumnTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBlueMatrixColumnTag)            ICC Profile Tag Signature: 'bXYZ'. |
| static int | [**icSigBlueTRCTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBlueTRCTag)            ICC Profile Tag Signature: 'bTRC'. |
| static int | [**icSigBToA0Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBToA0Tag)            ICC Profile Tag Signature: 'B2A0'. |
| static int | [**icSigBToA1Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBToA1Tag)            ICC Profile Tag Signature: 'B2A1'. |
| static int | [**icSigBToA2Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigBToA2Tag)            ICC Profile Tag Signature: 'B2A2'. |
| static int | [**icSigCalibrationDateTimeTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCalibrationDateTimeTag)            ICC Profile Tag Signature: 'calt'. |
| static int | [**icSigCharTargetTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCharTargetTag)            ICC Profile Tag Signature: 'targ'. |
| static int | [**icSigChromaticAdaptationTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigChromaticAdaptationTag)            ICC Profile Tag Signature: 'chad'. |
| static int | [**icSigChromaticityTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigChromaticityTag)            ICC Profile Tag Signature: 'chrm'. |
| static int | [**icSigCmyData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCmyData)            ICC Profile Color Space Type Signature: 'CMY '. |
| static int | [**icSigCmykData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCmykData)            ICC Profile Color Space Type Signature: 'CMYK'. |
| static int | [**icSigColorantOrderTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigColorantOrderTag)            ICC Profile Tag Signature: 'clro'. |
| static int | [**icSigColorantTableTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigColorantTableTag)            ICC Profile Tag Signature: 'clrt'. |
| static int | [**icSigColorSpaceClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigColorSpaceClass)            ICC Profile Class Signature: 'spac'. |
| static int | [**icSigCopyrightTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCopyrightTag)            ICC Profile Tag Signature: 'cprt'. |
| static int | [**icSigCrdInfoTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigCrdInfoTag)            ICC Profile Tag Signature: 'crdi'. |
| static int | [**icSigDeviceMfgDescTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigDeviceMfgDescTag)            ICC Profile Tag Signature: 'dmnd'. |
| static int | [**icSigDeviceModelDescTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigDeviceModelDescTag)            ICC Profile Tag Signature: 'dmdd'. |
| static int | [**icSigDeviceSettingsTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigDeviceSettingsTag)            ICC Profile Tag Signature: 'devs'. |
| static int | [**icSigDisplayClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigDisplayClass)            ICC Profile Class Signature: 'mntr'. |
| static int | [**icSigGamutTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGamutTag)            ICC Profile Tag Signature: 'gamt'. |
| static int | [**icSigGrayData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGrayData)            ICC Profile Color Space Type Signature: 'GRAY'. |
| static int | [**icSigGrayTRCTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGrayTRCTag)            ICC Profile Tag Signature: 'kTRC'. |
| static int | [**icSigGreenColorantTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGreenColorantTag)            ICC Profile Tag Signature: 'gXYZ'. |
| static int | [**icSigGreenMatrixColumnTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGreenMatrixColumnTag)            ICC Profile Tag Signature: 'gXYZ'. |
| static int | [**icSigGreenTRCTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigGreenTRCTag)            ICC Profile Tag Signature: 'gTRC'. |
| static int | [**icSigHead**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigHead)            ICC Profile Tag Signature: 'head' - special. |
| static int | [**icSigHlsData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigHlsData)            ICC Profile Color Space Type Signature: 'HLS'. |
| static int | [**icSigHsvData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigHsvData)            ICC Profile Color Space Type Signature: 'HSV'. |
| static int | [**icSigInputClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigInputClass)            ICC Profile Class Signature: 'scnr'. |
| static int | [**icSigLabData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigLabData)            ICC Profile Color Space Type Signature: 'Lab '. |
| static int | [**icSigLinkClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigLinkClass)            ICC Profile Class Signature: 'link'. |
| static int | [**icSigLuminanceTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigLuminanceTag)            ICC Profile Tag Signature: 'lumi'. |
| static int | [**icSigLuvData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigLuvData)            ICC Profile Color Space Type Signature: 'Luv '. |
| static int | [**icSigMeasurementTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigMeasurementTag)            ICC Profile Tag Signature: 'meas'. |
| static int | [**icSigMediaBlackPointTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigMediaBlackPointTag)            ICC Profile Tag Signature: 'bkpt'. |
| static int | [**icSigMediaWhitePointTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigMediaWhitePointTag)            ICC Profile Tag Signature: 'wtpt'. |
| static int | [**icSigNamedColor2Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigNamedColor2Tag)            ICC Profile Tag Signature: 'ncl2'. |
| static int | [**icSigNamedColorClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigNamedColorClass)            ICC Profile Class Signature: 'nmcl'. |
| static int | [**icSigOutputClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigOutputClass)            ICC Profile Class Signature: 'prtr'. |
| static int | [**icSigOutputResponseTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigOutputResponseTag)            ICC Profile Tag Signature: 'resp'. |
| static int | [**icSigPreview0Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPreview0Tag)            ICC Profile Tag Signature: 'pre0'. |
| static int | [**icSigPreview1Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPreview1Tag)            ICC Profile Tag Signature: 'pre1'. |
| static int | [**icSigPreview2Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPreview2Tag)            ICC Profile Tag Signature: 'pre2'. |
| static int | [**icSigProfileDescriptionTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigProfileDescriptionTag)            ICC Profile Tag Signature: 'desc'. |
| static int | [**icSigProfileSequenceDescTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigProfileSequenceDescTag)            ICC Profile Tag Signature: 'pseq'. |
| static int | [**icSigPs2CRD0Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2CRD0Tag)            ICC Profile Tag Signature: 'psd0'. |
| static int | [**icSigPs2CRD1Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2CRD1Tag)            ICC Profile Tag Signature: 'psd1'. |
| static int | [**icSigPs2CRD2Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2CRD2Tag)            ICC Profile Tag Signature: 'psd2'. |
| static int | [**icSigPs2CRD3Tag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2CRD3Tag)            ICC Profile Tag Signature: 'psd3'. |
| static int | [**icSigPs2CSATag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2CSATag)            ICC Profile Tag Signature: 'ps2s'. |
| static int | [**icSigPs2RenderingIntentTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigPs2RenderingIntentTag)            ICC Profile Tag Signature: 'ps2i'. |
| static int | [**icSigRedColorantTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigRedColorantTag)            ICC Profile Tag Signature: 'rXYZ'. |
| static int | [**icSigRedMatrixColumnTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigRedMatrixColumnTag)            ICC Profile Tag Signature: 'rXYZ'. |
| static int | [**icSigRedTRCTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigRedTRCTag)            ICC Profile Tag Signature: 'rTRC'. |
| static int | [**icSigRgbData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigRgbData)            ICC Profile Color Space Type Signature: 'RGB '. |
| static int | [**icSigScreeningDescTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigScreeningDescTag)            ICC Profile Tag Signature: 'scrd'. |
| static int | [**icSigScreeningTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigScreeningTag)            ICC Profile Tag Signature: 'scrn'. |
| static int | [**icSigSpace2CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace2CLR)            ICC Profile Color Space Type Signature: '2CLR'. |
| static int | [**icSigSpace3CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace3CLR)            ICC Profile Color Space Type Signature: '3CLR'. |
| static int | [**icSigSpace4CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace4CLR)            ICC Profile Color Space Type Signature: '4CLR'. |
| static int | [**icSigSpace5CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace5CLR)            ICC Profile Color Space Type Signature: '5CLR'. |
| static int | [**icSigSpace6CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace6CLR)            ICC Profile Color Space Type Signature: '6CLR'. |
| static int | [**icSigSpace7CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace7CLR)            ICC Profile Color Space Type Signature: '7CLR'. |
| static int | [**icSigSpace8CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace8CLR)            ICC Profile Color Space Type Signature: '8CLR'. |
| static int | [**icSigSpace9CLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpace9CLR)            ICC Profile Color Space Type Signature: '9CLR'. |
| static int | [**icSigSpaceACLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceACLR)            ICC Profile Color Space Type Signature: 'ACLR'. |
| static int | [**icSigSpaceBCLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceBCLR)            ICC Profile Color Space Type Signature: 'BCLR'. |
| static int | [**icSigSpaceCCLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceCCLR)            ICC Profile Color Space Type Signature: 'CCLR'. |
| static int | [**icSigSpaceDCLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceDCLR)            ICC Profile Color Space Type Signature: 'DCLR'. |
| static int | [**icSigSpaceECLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceECLR)            ICC Profile Color Space Type Signature: 'ECLR'. |
| static int | [**icSigSpaceFCLR**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigSpaceFCLR)            ICC Profile Color Space Type Signature: 'FCLR'. |
| static int | [**icSigTechnologyTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigTechnologyTag)            ICC Profile Tag Signature: 'tech'. |
| static int | [**icSigUcrBgTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigUcrBgTag)            ICC Profile Tag Signature: 'bfd '. |
| static int | [**icSigViewingCondDescTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigViewingCondDescTag)            ICC Profile Tag Signature: 'vued'. |
| static int | [**icSigViewingConditionsTag**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigViewingConditionsTag)            ICC Profile Tag Signature: 'view'. |
| static int | [**icSigXYZData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigXYZData)            ICC Profile Color Space Type Signature: 'XYZ '. |
| static int | [**icSigYCbCrData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigYCbCrData)            ICC Profile Color Space Type Signature: 'YCbr'. |
| static int | [**icSigYxyData**](http://docs.google.com/java/awt/color/ICC_Profile.html#icSigYxyData)            ICC Profile Color Space Type Signature: 'Yxy '. |
| static int | [**icTagReserved**](http://docs.google.com/java/awt/color/ICC_Profile.html#icTagReserved)            ICC Profile Constant: reserved. |
| static int | [**icTagType**](http://docs.google.com/java/awt/color/ICC_Profile.html#icTagType)            ICC Profile Constant: tag type signaturE. |
| static int | [**icXYZNumberX**](http://docs.google.com/java/awt/color/ICC_Profile.html#icXYZNumberX)            ICC Profile Constant: XYZNumber X. |

| **Method Summary** | |
| --- | --- |
| protected  void | [**finalize**](http://docs.google.com/java/awt/color/ICC_Profile.html#finalize())()            Frees the resources associated with an ICC\_Profile object. |
| int | [**getColorSpaceType**](http://docs.google.com/java/awt/color/ICC_Profile.html#getColorSpaceType())()            Returns the color space type. |
| byte[] | [**getData**](http://docs.google.com/java/awt/color/ICC_Profile.html#getData())()            Returns a byte array corresponding to the data of this ICC\_Profile. |
| byte[] | [**getData**](http://docs.google.com/java/awt/color/ICC_Profile.html#getData(int))(int tagSignature)            Returns a particular tagged data element from the profile as a byte array. |
| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | [**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(byte%5B%5D))(byte[] data)            Constructs an ICC\_Profile object corresponding to the data in a byte array. |
| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | [**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) s)            Constructs an ICC\_Profile corresponding to the data in an InputStream. |
| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | [**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(int))(int cspace)            Constructs an ICC\_Profile corresponding to one of the specific color spaces defined by the ColorSpace class (for example CS\_sRGB). |
| static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) | [**getInstance**](http://docs.google.com/java/awt/color/ICC_Profile.html#getInstance(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Constructs an ICC\_Profile corresponding to the data in a file. |
| int | [**getMajorVersion**](http://docs.google.com/java/awt/color/ICC_Profile.html#getMajorVersion())()            Returns profile major version. |
| int | [**getMinorVersion**](http://docs.google.com/java/awt/color/ICC_Profile.html#getMinorVersion())()            Returns profile minor version. |
| int | [**getNumComponents**](http://docs.google.com/java/awt/color/ICC_Profile.html#getNumComponents())()            Returns the number of color components in the "input" color space of this profile. |
| int | [**getPCSType**](http://docs.google.com/java/awt/color/ICC_Profile.html#getPCSType())()            Returns the color space type of the Profile Connection Space (PCS). |
| int | [**getProfileClass**](http://docs.google.com/java/awt/color/ICC_Profile.html#getProfileClass())()            Returns the profile class. |
| protected  [Object](http://docs.google.com/java/lang/Object.html) | [**readResolve**](http://docs.google.com/java/awt/color/ICC_Profile.html#readResolve())()            Resolves instances being deserialized into instances registered with CMM. |
| void | [**setData**](http://docs.google.com/java/awt/color/ICC_Profile.html#setData(int,%20byte%5B%5D))(int tagSignature, byte[] tagData)            Sets a particular tagged data element in the profile from a byte array. |
| void | [**write**](http://docs.google.com/java/awt/color/ICC_Profile.html#write(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) s)            Write this ICC\_Profile to an OutputStream. |
| void | [**write**](http://docs.google.com/java/awt/color/ICC_Profile.html#write(java.lang.String))([String](http://docs.google.com/java/lang/String.html) fileName)            Write this ICC\_Profile to a file. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### CLASS\_INPUT

public static final int **CLASS\_INPUT**

Profile class is input.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_INPUT)

### CLASS\_DISPLAY

public static final int **CLASS\_DISPLAY**

Profile class is display.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_DISPLAY)

### CLASS\_OUTPUT

public static final int **CLASS\_OUTPUT**

Profile class is output.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_OUTPUT)

### CLASS\_DEVICELINK

public static final int **CLASS\_DEVICELINK**

Profile class is device link.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_DEVICELINK)

### CLASS\_COLORSPACECONVERSION

public static final int **CLASS\_COLORSPACECONVERSION**

Profile class is color space conversion.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_COLORSPACECONVERSION)

### CLASS\_ABSTRACT

public static final int **CLASS\_ABSTRACT**

Profile class is abstract.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_ABSTRACT)

### CLASS\_NAMEDCOLOR

public static final int **CLASS\_NAMEDCOLOR**

Profile class is named color.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.CLASS_NAMEDCOLOR)

### icSigXYZData

public static final int **icSigXYZData**

ICC Profile Color Space Type Signature: 'XYZ '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigXYZData)

### icSigLabData

public static final int **icSigLabData**

ICC Profile Color Space Type Signature: 'Lab '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigLabData)

### icSigLuvData

public static final int **icSigLuvData**

ICC Profile Color Space Type Signature: 'Luv '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigLuvData)

### icSigYCbCrData

public static final int **icSigYCbCrData**

ICC Profile Color Space Type Signature: 'YCbr'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigYCbCrData)

### icSigYxyData

public static final int **icSigYxyData**

ICC Profile Color Space Type Signature: 'Yxy '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigYxyData)

### icSigRgbData

public static final int **icSigRgbData**

ICC Profile Color Space Type Signature: 'RGB '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigRgbData)

### icSigGrayData

public static final int **icSigGrayData**

ICC Profile Color Space Type Signature: 'GRAY'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGrayData)

### icSigHsvData

public static final int **icSigHsvData**

ICC Profile Color Space Type Signature: 'HSV'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigHsvData)

### icSigHlsData

public static final int **icSigHlsData**

ICC Profile Color Space Type Signature: 'HLS'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigHlsData)

### icSigCmykData

public static final int **icSigCmykData**

ICC Profile Color Space Type Signature: 'CMYK'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCmykData)

### icSigCmyData

public static final int **icSigCmyData**

ICC Profile Color Space Type Signature: 'CMY '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCmyData)

### icSigSpace2CLR

public static final int **icSigSpace2CLR**

ICC Profile Color Space Type Signature: '2CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace2CLR)

### icSigSpace3CLR

public static final int **icSigSpace3CLR**

ICC Profile Color Space Type Signature: '3CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace3CLR)

### icSigSpace4CLR

public static final int **icSigSpace4CLR**

ICC Profile Color Space Type Signature: '4CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace4CLR)

### icSigSpace5CLR

public static final int **icSigSpace5CLR**

ICC Profile Color Space Type Signature: '5CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace5CLR)

### icSigSpace6CLR

public static final int **icSigSpace6CLR**

ICC Profile Color Space Type Signature: '6CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace6CLR)

### icSigSpace7CLR

public static final int **icSigSpace7CLR**

ICC Profile Color Space Type Signature: '7CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace7CLR)

### icSigSpace8CLR

public static final int **icSigSpace8CLR**

ICC Profile Color Space Type Signature: '8CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace8CLR)

### icSigSpace9CLR

public static final int **icSigSpace9CLR**

ICC Profile Color Space Type Signature: '9CLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpace9CLR)

### icSigSpaceACLR

public static final int **icSigSpaceACLR**

ICC Profile Color Space Type Signature: 'ACLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceACLR)

### icSigSpaceBCLR

public static final int **icSigSpaceBCLR**

ICC Profile Color Space Type Signature: 'BCLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceBCLR)

### icSigSpaceCCLR

public static final int **icSigSpaceCCLR**

ICC Profile Color Space Type Signature: 'CCLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceCCLR)

### icSigSpaceDCLR

public static final int **icSigSpaceDCLR**

ICC Profile Color Space Type Signature: 'DCLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceDCLR)

### icSigSpaceECLR

public static final int **icSigSpaceECLR**

ICC Profile Color Space Type Signature: 'ECLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceECLR)

### icSigSpaceFCLR

public static final int **icSigSpaceFCLR**

ICC Profile Color Space Type Signature: 'FCLR'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigSpaceFCLR)

### icSigInputClass

public static final int **icSigInputClass**

ICC Profile Class Signature: 'scnr'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigInputClass)

### icSigDisplayClass

public static final int **icSigDisplayClass**

ICC Profile Class Signature: 'mntr'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigDisplayClass)

### icSigOutputClass

public static final int **icSigOutputClass**

ICC Profile Class Signature: 'prtr'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigOutputClass)

### icSigLinkClass

public static final int **icSigLinkClass**

ICC Profile Class Signature: 'link'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigLinkClass)

### icSigAbstractClass

public static final int **icSigAbstractClass**

ICC Profile Class Signature: 'abst'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigAbstractClass)

### icSigColorSpaceClass

public static final int **icSigColorSpaceClass**

ICC Profile Class Signature: 'spac'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigColorSpaceClass)

### icSigNamedColorClass

public static final int **icSigNamedColorClass**

ICC Profile Class Signature: 'nmcl'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigNamedColorClass)

### icPerceptual

public static final int **icPerceptual**

ICC Profile Rendering Intent: Perceptual.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icPerceptual)

### icRelativeColorimetric

public static final int **icRelativeColorimetric**

ICC Profile Rendering Intent: RelativeColorimetric.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icRelativeColorimetric)

### icMediaRelativeColorimetric

public static final int **icMediaRelativeColorimetric**

ICC Profile Rendering Intent: Media-RelativeColorimetric.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icMediaRelativeColorimetric)

### icSaturation

public static final int **icSaturation**

ICC Profile Rendering Intent: Saturation.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSaturation)

### icAbsoluteColorimetric

public static final int **icAbsoluteColorimetric**

ICC Profile Rendering Intent: AbsoluteColorimetric.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icAbsoluteColorimetric)

### icICCAbsoluteColorimetric

public static final int **icICCAbsoluteColorimetric**

ICC Profile Rendering Intent: ICC-AbsoluteColorimetric.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icICCAbsoluteColorimetric)

### icSigHead

public static final int **icSigHead**

ICC Profile Tag Signature: 'head' - special.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigHead)

### icSigAToB0Tag

public static final int **icSigAToB0Tag**

ICC Profile Tag Signature: 'A2B0'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigAToB0Tag)

### icSigAToB1Tag

public static final int **icSigAToB1Tag**

ICC Profile Tag Signature: 'A2B1'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigAToB1Tag)

### icSigAToB2Tag

public static final int **icSigAToB2Tag**

ICC Profile Tag Signature: 'A2B2'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigAToB2Tag)

### icSigBlueColorantTag

public static final int **icSigBlueColorantTag**

ICC Profile Tag Signature: 'bXYZ'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBlueColorantTag)

### icSigBlueMatrixColumnTag

public static final int **icSigBlueMatrixColumnTag**

ICC Profile Tag Signature: 'bXYZ'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBlueMatrixColumnTag)

### icSigBlueTRCTag

public static final int **icSigBlueTRCTag**

ICC Profile Tag Signature: 'bTRC'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBlueTRCTag)

### icSigBToA0Tag

public static final int **icSigBToA0Tag**

ICC Profile Tag Signature: 'B2A0'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBToA0Tag)

### icSigBToA1Tag

public static final int **icSigBToA1Tag**

ICC Profile Tag Signature: 'B2A1'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBToA1Tag)

### icSigBToA2Tag

public static final int **icSigBToA2Tag**

ICC Profile Tag Signature: 'B2A2'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigBToA2Tag)

### icSigCalibrationDateTimeTag

public static final int **icSigCalibrationDateTimeTag**

ICC Profile Tag Signature: 'calt'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCalibrationDateTimeTag)

### icSigCharTargetTag

public static final int **icSigCharTargetTag**

ICC Profile Tag Signature: 'targ'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCharTargetTag)

### icSigCopyrightTag

public static final int **icSigCopyrightTag**

ICC Profile Tag Signature: 'cprt'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCopyrightTag)

### icSigCrdInfoTag

public static final int **icSigCrdInfoTag**

ICC Profile Tag Signature: 'crdi'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigCrdInfoTag)

### icSigDeviceMfgDescTag

public static final int **icSigDeviceMfgDescTag**

ICC Profile Tag Signature: 'dmnd'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigDeviceMfgDescTag)

### icSigDeviceModelDescTag

public static final int **icSigDeviceModelDescTag**

ICC Profile Tag Signature: 'dmdd'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigDeviceModelDescTag)

### icSigDeviceSettingsTag

public static final int **icSigDeviceSettingsTag**

ICC Profile Tag Signature: 'devs'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigDeviceSettingsTag)

### icSigGamutTag

public static final int **icSigGamutTag**

ICC Profile Tag Signature: 'gamt'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGamutTag)

### icSigGrayTRCTag

public static final int **icSigGrayTRCTag**

ICC Profile Tag Signature: 'kTRC'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGrayTRCTag)

### icSigGreenColorantTag

public static final int **icSigGreenColorantTag**

ICC Profile Tag Signature: 'gXYZ'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGreenColorantTag)

### icSigGreenMatrixColumnTag

public static final int **icSigGreenMatrixColumnTag**

ICC Profile Tag Signature: 'gXYZ'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGreenMatrixColumnTag)

### icSigGreenTRCTag

public static final int **icSigGreenTRCTag**

ICC Profile Tag Signature: 'gTRC'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigGreenTRCTag)

### icSigLuminanceTag

public static final int **icSigLuminanceTag**

ICC Profile Tag Signature: 'lumi'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigLuminanceTag)

### icSigMeasurementTag

public static final int **icSigMeasurementTag**

ICC Profile Tag Signature: 'meas'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigMeasurementTag)

### icSigMediaBlackPointTag

public static final int **icSigMediaBlackPointTag**

ICC Profile Tag Signature: 'bkpt'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigMediaBlackPointTag)

### icSigMediaWhitePointTag

public static final int **icSigMediaWhitePointTag**

ICC Profile Tag Signature: 'wtpt'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigMediaWhitePointTag)

### icSigNamedColor2Tag

public static final int **icSigNamedColor2Tag**

ICC Profile Tag Signature: 'ncl2'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigNamedColor2Tag)

### icSigOutputResponseTag

public static final int **icSigOutputResponseTag**

ICC Profile Tag Signature: 'resp'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigOutputResponseTag)

### icSigPreview0Tag

public static final int **icSigPreview0Tag**

ICC Profile Tag Signature: 'pre0'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPreview0Tag)

### icSigPreview1Tag

public static final int **icSigPreview1Tag**

ICC Profile Tag Signature: 'pre1'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPreview1Tag)

### icSigPreview2Tag

public static final int **icSigPreview2Tag**

ICC Profile Tag Signature: 'pre2'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPreview2Tag)

### icSigProfileDescriptionTag

public static final int **icSigProfileDescriptionTag**

ICC Profile Tag Signature: 'desc'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigProfileDescriptionTag)

### icSigProfileSequenceDescTag

public static final int **icSigProfileSequenceDescTag**

ICC Profile Tag Signature: 'pseq'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigProfileSequenceDescTag)

### icSigPs2CRD0Tag

public static final int **icSigPs2CRD0Tag**

ICC Profile Tag Signature: 'psd0'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2CRD0Tag)

### icSigPs2CRD1Tag

public static final int **icSigPs2CRD1Tag**

ICC Profile Tag Signature: 'psd1'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2CRD1Tag)

### icSigPs2CRD2Tag

public static final int **icSigPs2CRD2Tag**

ICC Profile Tag Signature: 'psd2'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2CRD2Tag)

### icSigPs2CRD3Tag

public static final int **icSigPs2CRD3Tag**

ICC Profile Tag Signature: 'psd3'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2CRD3Tag)

### icSigPs2CSATag

public static final int **icSigPs2CSATag**

ICC Profile Tag Signature: 'ps2s'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2CSATag)

### icSigPs2RenderingIntentTag

public static final int **icSigPs2RenderingIntentTag**

ICC Profile Tag Signature: 'ps2i'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigPs2RenderingIntentTag)

### icSigRedColorantTag

public static final int **icSigRedColorantTag**

ICC Profile Tag Signature: 'rXYZ'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigRedColorantTag)

### icSigRedMatrixColumnTag

public static final int **icSigRedMatrixColumnTag**

ICC Profile Tag Signature: 'rXYZ'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigRedMatrixColumnTag)

### icSigRedTRCTag

public static final int **icSigRedTRCTag**

ICC Profile Tag Signature: 'rTRC'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigRedTRCTag)

### icSigScreeningDescTag

public static final int **icSigScreeningDescTag**

ICC Profile Tag Signature: 'scrd'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigScreeningDescTag)

### icSigScreeningTag

public static final int **icSigScreeningTag**

ICC Profile Tag Signature: 'scrn'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigScreeningTag)

### icSigTechnologyTag

public static final int **icSigTechnologyTag**

ICC Profile Tag Signature: 'tech'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigTechnologyTag)

### icSigUcrBgTag

public static final int **icSigUcrBgTag**

ICC Profile Tag Signature: 'bfd '.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigUcrBgTag)

### icSigViewingCondDescTag

public static final int **icSigViewingCondDescTag**

ICC Profile Tag Signature: 'vued'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigViewingCondDescTag)

### icSigViewingConditionsTag

public static final int **icSigViewingConditionsTag**

ICC Profile Tag Signature: 'view'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigViewingConditionsTag)

### icSigChromaticityTag

public static final int **icSigChromaticityTag**

ICC Profile Tag Signature: 'chrm'.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigChromaticityTag)

### icSigChromaticAdaptationTag

public static final int **icSigChromaticAdaptationTag**

ICC Profile Tag Signature: 'chad'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigChromaticAdaptationTag)

### icSigColorantOrderTag

public static final int **icSigColorantOrderTag**

ICC Profile Tag Signature: 'clro'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigColorantOrderTag)

### icSigColorantTableTag

public static final int **icSigColorantTableTag**

ICC Profile Tag Signature: 'clrt'.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icSigColorantTableTag)

### icHdrSize

public static final int **icHdrSize**

ICC Profile Header Location: profile size in bytes.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrSize)

### icHdrCmmId

public static final int **icHdrCmmId**

ICC Profile Header Location: CMM for this profile.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrCmmId)

### icHdrVersion

public static final int **icHdrVersion**

ICC Profile Header Location: format version number.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrVersion)

### icHdrDeviceClass

public static final int **icHdrDeviceClass**

ICC Profile Header Location: type of profile.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrDeviceClass)

### icHdrColorSpace

public static final int **icHdrColorSpace**

ICC Profile Header Location: color space of data.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrColorSpace)

### icHdrPcs

public static final int **icHdrPcs**

ICC Profile Header Location: PCS - XYZ or Lab only.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrPcs)

### icHdrDate

public static final int **icHdrDate**

ICC Profile Header Location: date profile was created.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrDate)

### icHdrMagic

public static final int **icHdrMagic**

ICC Profile Header Location: icMagicNumber.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrMagic)

### icHdrPlatform

public static final int **icHdrPlatform**

ICC Profile Header Location: primary platform.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrPlatform)

### icHdrFlags

public static final int **icHdrFlags**

ICC Profile Header Location: various bit settings.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrFlags)

### icHdrManufacturer

public static final int **icHdrManufacturer**

ICC Profile Header Location: device manufacturer.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrManufacturer)

### icHdrModel

public static final int **icHdrModel**

ICC Profile Header Location: device model number.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrModel)

### icHdrAttributes

public static final int **icHdrAttributes**

ICC Profile Header Location: device attributes.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrAttributes)

### icHdrRenderingIntent

public static final int **icHdrRenderingIntent**

ICC Profile Header Location: rendering intent.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrRenderingIntent)

### icHdrIlluminant

public static final int **icHdrIlluminant**

ICC Profile Header Location: profile illuminant.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrIlluminant)

### icHdrCreator

public static final int **icHdrCreator**

ICC Profile Header Location: profile creator.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrCreator)

### icHdrProfileID

public static final int **icHdrProfileID**

ICC Profile Header Location: profile's ID.

**Since:** 1.5 **See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icHdrProfileID)

### icTagType

public static final int **icTagType**

ICC Profile Constant: tag type signaturE.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icTagType)

### icTagReserved

public static final int **icTagReserved**

ICC Profile Constant: reserved.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icTagReserved)

### icCurveCount

public static final int **icCurveCount**

ICC Profile Constant: curveType count.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icCurveCount)

### icCurveData

public static final int **icCurveData**

ICC Profile Constant: curveType data.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icCurveData)

### icXYZNumberX

public static final int **icXYZNumberX**

ICC Profile Constant: XYZNumber X.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.color.ICC_Profile.icXYZNumberX)

| **Method Detail** |
| --- |

### finalize

protected void **finalize**()

Frees the resources associated with an ICC\_Profile object.

**Overrides:**[finalize](http://docs.google.com/java/lang/Object.html#finalize()) in class [Object](http://docs.google.com/java/lang/Object.html)

### getInstance

public static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) **getInstance**(byte[] data)

Constructs an ICC\_Profile object corresponding to the data in a byte array. Throws an IllegalArgumentException if the data does not correspond to a valid ICC Profile.

**Parameters:**data - the specified ICC Profile data **Returns:**an ICC\_Profile object corresponding to the data in the specified data array.

### getInstance

public static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) **getInstance**(int cspace)

Constructs an ICC\_Profile corresponding to one of the specific color spaces defined by the ColorSpace class (for example CS\_sRGB). Throws an IllegalArgumentException if cspace is not one of the defined color spaces.

**Parameters:**cspace - the type of color space to create a profile for. The specified type is one of the color space constants defined in the ColorSpace class. **Returns:**an ICC\_Profile object corresponding to the specified ColorSpace type. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If cspace is not one of the predefined color space types.

### getInstance

public static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) **getInstance**([String](http://docs.google.com/java/lang/String.html) fileName)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Constructs an ICC\_Profile corresponding to the data in a file. fileName may be an absolute or a relative file specification. Relative file names are looked for in several places: first, relative to any directories specified by the java.iccprofile.path property; second, relative to any directories specified by the java.class.path property; finally, in a directory used to store profiles always available, such as the profile for sRGB. Built-in profiles use .pf as the file name extension for profiles, e.g. sRGB.pf. This method throws an IOException if the specified file cannot be opened or if an I/O error occurs while reading the file. It throws an IllegalArgumentException if the file does not contain valid ICC Profile data.

**Parameters:**fileName - The file that contains the data for the profile. **Returns:**an ICC\_Profile object corresponding to the data in the specified file. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If the specified file cannot be opened or an I/O error occurs while reading the file. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the file does not contain valid ICC Profile data. [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - If a security manager is installed and it does not permit read access to the given file.

### getInstance

public static [ICC\_Profile](http://docs.google.com/java/awt/color/ICC_Profile.html) **getInstance**([InputStream](http://docs.google.com/java/io/InputStream.html) s)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Constructs an ICC\_Profile corresponding to the data in an InputStream. This method throws an IllegalArgumentException if the stream does not contain valid ICC Profile data. It throws an IOException if an I/O error occurs while reading the stream.

**Parameters:**s - The input stream from which to read the profile data. **Returns:**an ICC\_Profile object corresponding to the data in the specified InputStream. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs while reading the stream. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - If the stream does not contain valid ICC Profile data.

### getMajorVersion

public int **getMajorVersion**()

Returns profile major version.

**Returns:**The major version of the profile.

### getMinorVersion

public int **getMinorVersion**()

Returns profile minor version.

**Returns:**The minor version of the profile.

### getProfileClass

public int **getProfileClass**()

Returns the profile class.

**Returns:**One of the predefined profile class constants.

### getColorSpaceType

public int **getColorSpaceType**()

Returns the color space type. Returns one of the color space type constants defined by the ColorSpace class. This is the "input" color space of the profile. The type defines the number of components of the color space and the interpretation, e.g. TYPE\_RGB identifies a color space with three components - red, green, and blue. It does not define the particular color characteristics of the space, e.g. the chromaticities of the primaries.

**Returns:**One of the color space type constants defined in the ColorSpace class.

### getPCSType

public int **getPCSType**()

Returns the color space type of the Profile Connection Space (PCS). Returns one of the color space type constants defined by the ColorSpace class. This is the "output" color space of the profile. For an input, display, or output profile useful for tagging colors or images, this will be either TYPE\_XYZ or TYPE\_Lab and should be interpreted as the corresponding specific color space defined in the ICC specification. For a device link profile, this could be any of the color space type constants.

**Returns:**One of the color space type constants defined in the ColorSpace class.

### write

public void **write**([String](http://docs.google.com/java/lang/String.html) fileName)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Write this ICC\_Profile to a file.

**Parameters:**fileName - The file to write the profile data to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If the file cannot be opened for writing or an I/O error occurs while writing to the file.

### write

public void **write**([OutputStream](http://docs.google.com/java/io/OutputStream.html) s)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Write this ICC\_Profile to an OutputStream.

**Parameters:**s - The stream to write the profile data to. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an I/O error occurs while writing to the stream.

### getData

public byte[] **getData**()

Returns a byte array corresponding to the data of this ICC\_Profile.

**Returns:**A byte array that contains the profile data.**See Also:**[setData(int, byte[])](http://docs.google.com/java/awt/color/ICC_Profile.html#setData(int,%20byte%5B%5D))

### getData

public byte[] **getData**(int tagSignature)

Returns a particular tagged data element from the profile as a byte array. Elements are identified by signatures as defined in the ICC specification. The signature icSigHead can be used to get the header. This method is useful for advanced applets or applications which need to access profile data directly.

**Parameters:**tagSignature - The ICC tag signature for the data element you want to get. **Returns:**A byte array that contains the tagged data element. Returns null if the specified tag doesn't exist.**See Also:**[setData(int, byte[])](http://docs.google.com/java/awt/color/ICC_Profile.html#setData(int,%20byte%5B%5D))

### setData

public void **setData**(int tagSignature,  
 byte[] tagData)

Sets a particular tagged data element in the profile from a byte array. This method is useful for advanced applets or applications which need to access profile data directly.

**Parameters:**tagSignature - The ICC tag signature for the data element you want to set.tagData - the data to set for the specified tag signature**See Also:**[getData()](http://docs.google.com/java/awt/color/ICC_Profile.html#getData())

### getNumComponents

public int **getNumComponents**()

Returns the number of color components in the "input" color space of this profile. For example if the color space type of this profile is TYPE\_RGB, then this method will return 3.

**Returns:**The number of color components in the profile's input color space. **Throws:** [ProfileDataException](http://docs.google.com/java/awt/color/ProfileDataException.html) - if color space is in the profile is invalid

### readResolve

protected [Object](http://docs.google.com/java/lang/Object.html) **readResolve**()  
 throws [ObjectStreamException](http://docs.google.com/java/io/ObjectStreamException.html)

Resolves instances being deserialized into instances registered with CMM.

**Returns:**ICC\_Profile object for profile registered with CMM. **Throws:** [ObjectStreamException](http://docs.google.com/java/io/ObjectStreamException.html) - never thrown, but mandated by the serialization spec.**Since:** 1.3

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ICC_Profile.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/color/ICC_ColorSpace.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/color/ICC_ProfileGray.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/color/ICC_Profile.html)    [**NO FRAMES**](http://docs.google.com/ICC_Profile.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#42ddq1a) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).