Register of public PNG chunks and keywords, Version 1.3.0

The latest versions of this document, the PNG specification, and related information can always be found at the PNG FTP archive site, ftp://ftp.simplesystens.org/pub/png/. The maintainers of the PNG specification can be contacted by e-mail at lists.sourceforge.net" ¿png-mng-misc @ lists.sourceforge.net.

Abstract

This document is the register of public chunks and keywords in the Portable Network Graphics (PNG) specification, version 1.2 [PNG-1.2], and in Portable Network Graphics (PNG) Specification (Second Edition) [PNG-ISO], plus any additional registered "public" PNG chunks and keywords, with their date of registration and location of their specifications.

Some chunks listed here are expected to be less widely supported than those defined in the basic specification. However, application authors are encouraged to use these chunk types whenever appropriate for their applications.

Additional chunk types and keywords may be proposed for inclusion in these lists by contacting the PNG specification maintainers at lists.sourceforge.net"¿ png-mng-misc @ lists.sourceforge.net.

1 Register of Public PNG Chunks

This table lists the registered public PNG chunks.

Chunk type	Date registered	Formal specification of chunk type
IDAT	7 Mar 95	PNG 1.2
IEND	7 Mar 95	PNG 1.2
IHDR	7 Mar 95	PNG 1.2
PLTE	7 Mar 95	PNG 1.2
bKGD	7 Mar 95	PNG 1.2
cHRM	7 Mar 95	PNG 1.2
fRAc	7 Mar 95[1]	PNGEXT 1.2.0
gAMA	7 Mar 95	PNG 1.2
gIFg	7 Mar 95	PNGEXT 1.2.0
gIFt	7 Mar 95[2]	PNGEXT 1.2.0
gIFx	7 Mar 95	PNGEXT 1.2.0
hIST	7 Mar 95	PNG 1.2
iCCP	17 Aug 98	PNG 1.2
iTXt	9 Feb 99	PNG 1.2

oFFs	7 Mar 95	PNGEXT 1.2.0
pCAL	28 Jan 97	PNGEXT 1.2.0
pHYs	7 Mar 95	PNG 1.2
sBIT	7 Mar 95	PNG 1.2
sCAL	7 Mar 95	PNGEXT 1.2.0
sPLT	9 Dec 96	PNG 1.2
sRGB	6 Nov 96	PNG 1.2
sTER	15 Apr 06	PNGEXT 1.3.0
tEXt	7 Mar 95	PNG 1.2
tRNS	7 Mar 95	PNG 1.2
zTXt	7 Mar 95	PNG 1.2

[1] The fRAc chunk was registered but never formally specified.
[2] The gIFT chunk was formally deprecated on 23 Oct 98.

2 Register of Public Text Chunk Keywords

This table lists the keywords that have been registered for use in PNG textual chunks.

Keyword	Date registered	Formal specification of keyword
Title	7 Mar 95	PNG-1.2
Author	7 Mar 95	PNG-1.2
Description	7 Mar 95	PNG-1.2
Copyright	7 Mar 95	PNG-1.2
Creation Time	7 Mar 95	PNG-1.2
Software	7 Mar 95	PNG-1.2
Disclaimer	7 Mar 95	PNG-1.2
Warning	7 Mar 95	PNG-1.2
Source	7 Mar 95	PNG-1.2
Comment	7 Mar 95	PNG-1.2

All **registered** textual keywords in iTXt and all other chunk types are limited to the ASCII characters A-Z, a-z, 0-9, space, and the following 20 symbols:

```
! " % & ' ( ) * + , - . / : ; < = > ? _
```

but not the remaining 12 symbols:

```
# $ @ [ \ ] ^ ` { | } ~
```

This restricted set is the ISO-646 “invariant” character set [ISO-646]. These characters have the same numeric codes in all ISO character sets, including all national variants of ASCII.

3 Appendix: Revision History

- 30 August 2006 (version 1.3.0): Added sTER chunk. Updated some URLs.
- 21 November 2000 (version 1.2.0): First public release, derived from the PNG Specification [PNG-1.2] and the PNG Extensions document [PNGEXT-1.2.0].

4 References

[ISO/IEC-8859-1]
International Organization for Standardization and International Electrotechnical Commission, “Information Technology–8-bit Single-Byte Coded Graphic Character Sets–Part 1: Latin Alphabet No. 1”, IS 8859-1, 1998.
Also see sample files at
ftp://ftp.simplesystems.org/pub/png/documents/iso_8859-1.*

[ISO-646]
International Organization for Standardization and International Electrotechnical Commission, “Information Technology–ISO 7-bit Coded Character Set for Information Exchange”, 1991.

[PNG-1.2]
Randers-Pehrson, G., et. al., “PNG (Portable Network Graphics Format) Version 1.2”, which is available at
ftp://ftp.simplesystems.org/pub/png/documents/.

[PNG-ISO]
“Portable Network Graphics (PNG) Specification (Second Edition),” 10 November 2003, also released as “International Standard 15948:2003 – Portable Network Graphics (PNG): Functional specification”, available at http://png-mng.sourceforge.net/pub/png/spec/iso/

[PNGEXT-1.2.0]
Randers-Pehrson, G., et. al., “Extensions to the PNG (Portable Network Graphics Format) Version 1.2.0”, which is available at
ftp://ftp.simplesystems.org/pub/png/documents/.

[PNGEXT-1.3.0]
Randers-Pehrson, G., et. al., “Extensions to the PNG (Portable Network Graphics Format) Version 1.3.0”, which is available at
ftp://ftp.simplesystems.org/pub/png/documents/.

5 Credits

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Document source

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End of Register of Public PNG Chunks and Keywords 1.3.0