

Charles Poynton – Publications

Books

POYNTON, CHARLES (2012, in press), *Digital Video and HD Algorithms and Interfaces*, Second edition (Burlington, Mass.: Morgan Kaufmann). 752 pages.

POYNTON, CHARLES (2003), *Digital Video and HDTV Algorithms and Interfaces* (San Francisco: Morgan Kaufmann). 736 pages (sixth printing).

POYNTON, CHARLES (1996), *A Technical Introduction to Digital Video* (New York: John Wiley & Sons). 352 pages (fifth printing).

Book chapters

POYNTON, CHARLES (2005), "Color in Digital Cinema," Ch. 3 in SWARTZ, CHARLES S. (Ed.), *Understanding Digital Cinema: A Professional Handbook*, (Burlington, Mass.: Focal Press).

POYNTON, CHARLES (1994), "High Definition Television and Desktop Computing," Ch. 18 in KOEGEL, JOHN F. (Ed.), *Multimedia Systems*, (New York: ACM Press/Addison-Wesley): 383–402.

POYNTON, CHARLES (1994), "The Current State of High Definition Television," Ch. 2 in CASABIANCA, LOU (Ed.), *The New TV: A Comprehensive Survey of High Definition Television* (Westport, Conn.: Meckler): 27–40.

Journal papers (peer reviewed)

POYNTON, CHARLES (2012, forthcoming), "Perceptual Uniformity in Digital Imaging," accepted for *Color Research & Application*.

POYNTON, CHARLES (2007), "Wide-Gamut Displays," in *Information Display* 23 (7): 10–15 (Jul.).

POYNTON, CHARLES (2004), "Displays for HDTV," in *Information Display* 20 (7): 22–25 (Jul.).

POYNTON, CHARLES (1993), "Gamma and Its Disguises," in *SMPTE J.* 102 (12): 1099–1108 (Dec.).

Conference papers

POYNTON, CHARLES (2010), "Image quality, signal processing, and the preservation of creative intent," in *Proc. Fourth International Work-*

shop on Image Quality and its Applications, IMQA 2010: 1–5 (Tokyo, May 13–14).

POYNTON, CHARLES (2010), "Wide-gamut image capture," in *Proc. CGIV 2010 – Fourth European Conf. on Colour in Graphics, Imaging*: 471–482 (Joensuu, Finland, June 14–18).

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POYNTON, CHARLES (2004), "Color Issues for Display System Designers," Paper 5.3 in *Proc. SID ADEAC*: 22–25 (Ft. Worth, Texas, Oct. 25–29).

POYNTON, CHARLES (2000), "High Visual Realism: Does It Help Story-telling?," in *Proc. Inter BEE 2000 Symposium* (Tokyo, Nov.).

POYNTON, CHARLES (1998), "Luminance, luma, and the migration to DTV, ATV, and HDTV," in *Proc. SMPTE Advanced Motion Imaging Conf.* (Toronto, Feb. 6).

POYNTON, CHARLES (1998), "The rehabilitation of gamma," in *Proc. SPIE 3299*: 232–249 (*Human Vision and Electronic Imaging III*) (San Jose, Calif., Jan. 26–29).

POYNTON, CHARLES (1996), "Motion portrayal, eye tracking, and emerging display technology," in *Proc. 30th SMPTE Advanced Motion Imaging Conference*: 192–202 (Seattle, Wash., Feb. 1–3).

POYNTON, CHARLES (1995), "Outlook for home use video terminals," in *Broadcasting in the Multimedia Age (Proc. International Broadcasting Symposium '95)*: 285–290 (Tokyo, Japan, Nov. 13–15).

POYNTON, CHARLES (1995), "A Guided Tour of Color Space," in *New Foundations for Video Technology, Proc. SMPTE Advanced Television and Electronic Imaging Conf.*: 167–180 (San Francisco, Feb.).

POYNTON, CHARLES (1994), "Wide Gamut Device-Independent Colour Image Interchange," in *Conf. International Broadcasting Convention 1994* (IEE Conference Publication No. 397): 218–222.

POYNTON, CHARLES (1993), "High Definition Television and Desktop Computing," in *Proc. International Technical Workshop on Multimedia Technologies in the HDTV Age*, IEEE CES Tokyo Chapter (Jul. 20); also published as Ch. 18 in KOEGEL, JOHN F. (Ed.) (1994), *Multimedia Systems* (New York: ACM Press/Addison-Wesley).

POYNTON, CHARLES (1993), "Technology for Accurate Color," in *Proc. SMPTE Advanced Television and Electronic Imaging Conf.*: 186–200 (*Advanced Television and Electronic Imaging for Film and Video*, New York, Feb. 5–6).

- POYNTON, CHARLES (1992), "Overview of TIFF 5.0," in *Image Processing and Interchange: Implementation and Systems* (Proc. SPIE 1659): 152–158 (San Jose, Calif., Feb.).
- POYNTON, CHARLES (1992), "A Tutorial on Picture and Sound Compression," in *Proc. 26th Annual SMPTE Advanced Television and Electronic Imaging Conf.*: 46–57 (Feb. 7–8).
- Poynton, Charles (1990), "A Tutorial on Magic Numbers for High Definition Electronic Production," Preprint No. 132-119 from *132nd SMPTE Technical Conference* (Orlando, Fl., Oct. 13 – 17).
- POYNTON, CHARLES (1990), "HDTV and the Computer Industry," in *TVHD/90/HDTV – Proc. Fourth Annual Colloquium on Advanced Television Systems*: 2A.6.1–2A.6.10 (Ottawa, Jun. 25–29).
- POYNTON, CHARLES (1990), "HDTV for Computer Workstations," in *Proc. 24th SMPTE Television Conf.*: 197–203 (*Television: Merging Multiple Technologies*, Jan.).
- Published material from courses, seminars, and workshop
- POYNTON, CHARLES and JOHNSON, GARRETT (2004), *Color science and color appearance models for CG, HDTV, and D-cinema*, Course Notes for ACM/SIGGRAPH 2004 Course C2, (Los Angeles, Aug. 8).
- POYNTON, CHARLES, and BARBARA MORRIS (2002), *Panic-Free Public Speaking*, Course Notes for ACM/SIGGRAPH 2002 Course 19 (San Antonio, Texas, Jul. 21; 3-hour tutorial).
- POYNTON, CHARLES, ARJUN RAMAMURTHY, BILL WERNER, CHUCK HARRISON, FRED MEYERS, and ISAAC KERLOW (2001), *The technology of digital cinema (D-cinema)*, Course Notes for ACM/SIGGRAPH 2001 Course 35 (Los Angeles, Aug. 13; full-day course).
- POYNTON, CHARLES, BARBARA MORRIS, ANDREW GLASSNER, and JIM BLINN (2001), *How to Give A Great SIGGRAPH Talk*, Course Notes for ACM/SIGGRAPH 2001 Course 41 (Los Angeles, Aug. 14; half-day course).
- POYNTON, CHARLES, ISAAC KERLOW, ALAN LASKY, BILL WERNER, DAVE LEHOTY, and DAVE SCHNUELLE (2000), *The technology of digital cinema (D-cinema)*, Course Notes for ACM/SIGGRAPH 2000 Course C45, (New Orleans, La., July 25).
- POYNTON, CHARLES, MAUREEN STONE, MICHAEL BOURGOIN, ARJUN RAMAMURTHY, and DAVE LEHOTY (2000), *Color science and color management for CGI and film*, Course Notes for ACM/SIGGRAPH 2000 Course C21 (New Orleans, Louisiana, July 24).
- POYNTON, CHARLES, (2000), *Colour Science in Digital Television and Electronic Cinema*, keynote talk, Colour 2000 Colour Image Science Conference, University of Derby (Manchester, U.K., Apr. 12).

POYNTON, CHARLES (1999), *Color in Film, Video, and Computer-Generated Imagery*, Course Notes for ACM/SIGGRAPH 99 Course C42 (Los Angeles, Calif., July 21).

POYNTON, CHARLES, EDWARD GIORGIANNI, and MICHAEL BOURGOIN (1998), *Color Image Coding, Color Management Systems*, Course Notes for ACM/SIGGRAPH 98 Courses C25/C26 (Orlando, Florida, July 20).

POYNTON, CHARLES, KEVIN STEC, and MICHAEL ISNARDI (1998). *Digital Video*, Course Notes for ACM/SIGGRAPH 98 Courses C43/C44 (Orlando, Florida, July 21).

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POYNTON, CHARLES, and MARY A. MOONEY (1997), *Tutorial: Color and type in information design*, Course Notes for ACM/CHI 97 Human factors in computing systems (Atlanta, Georgia, Mar. 22–27).

POYNTON, CHARLES, MICHAEL BOURGOIN, JAN DE CLIPPELEER, and THOR OLSON (1996), *Digital Color*, Course Notes for ACM/SIGGRAPH 96 Course C28 (New Orleans, Louisiana, Aug. 5).

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POYNTON, CHARLES (1994), *The Science of Digital Color*, Course Notes for ACM/SIGGRAPH 94 Course C26 (Orlando, Florida, July 26).

POYNTON, CHARLES, DAVE FARBER, ADRIAN LIGTENBERG and MARTIN LILLEY (1993), *Concepts of Color, Video and Compression*, Course Notes for ACM/SIGGRAPH 93 Course MM29 (Los Angeles, Calif., Aug. 1).

POYNTON, CHARLES, C. R. CAILLOUET, CHARLES A. PANTUSO, GLENN A. REITMEIER, and LAURENCE J. THORPE (1991), *High Definition Television (HDTV) Technology*. Course Notes for Course C18, ACM/SIGGRAPH 91 (Las Vegas, Nevada, July).

Published book reviews

POYNTON, CHARLES (2005), Book review of *Display Interfaces: Fundamentals and Standards*, in *Color Research and Application* 30 (1): 73–74 (Feb.).

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POYNTON, CHARLES (2010–), *Poynton's Vector*, Issues 1–17 (ongoing), series of 1000-word columns concerning display calibration published by SpectraCal, LLC.

POYNTON, CHARLES (1990, June), "Still Holding for HDTV," in *Computer Graphics World* **13** (6): 126.

Published interviews

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MILLIMETER MAGAZINE (1991, Aug.), *Profile: Charles Poynton*.

SHANDLE, JACK (1990, June), "HDTV: Looking Good As a CAD/CAM Standard," in *Electronics Magazine*: 70–71.

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ROBERTSON, BARBARA (1990, Jan.), "The Tangled Web of HDTV," in *Computer Graphics World*: 52–62.

FRENKEL, KAREN (1989, Nov.), "HDTV and the Computer Industry," in *Comm. ACM*: 1301–1312.

EDN (1989, Dec. 14), "Why you should care about HDTV," S46–S48.

CRIPPS, DALE (1989, June/July), "HDTV and the Computer Industry," in *HDTV Newsletter*: 15–16.

CANADIAN ELECTRONICS ENGINEER (1984, May), "NASA TV."