



## Introduction to Computer Graphics

By Foley, James D.; van Dam, Andries; Feiner, Steven K.; Hughes, John F.; Phillips, Richard L.

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 Summary: (All chapters, except Chapters 5 and 6 contain a Summary, and all chapters conclude with Exercises.) 1. Introducing: Computer Graphics. A Few Uses of Computer Graphics. A Brief History of Computer Graphics. Output Technology. Input Technology. Software Portability. The Advantages of Interactive Graphics. Conceptual Framework for Interactive Graphics. Application Modeling. Display of the Model. Interaction Handling. 2. Programming in the Simple Raster Graphics Package (SRGP). Drawing with SRGP. Specification of Graphics Primitives. Attributes. Filled Primitives and Their Attributes. Saving and Restoring Attributes. Text. Basic Interaction Handling. Human Factors. Logical Input Devices. Sampling Versus Event-Driven Processing. Sample Mode. Event Mode. Pick Correlation for Interaction Handling. Setting Device Measure and Attributes. Raster Graphics Features. Canvases. Clipping Rectangles. The SRGP\_copyPixel Operation. Write Mode or RasterOp. Limitation of SRGP. Application Coordinate Systems. Storage of Primitives for Respecification. 3. Basic Raster Graphics Algorithms for Drawing 2D Primitives. Overview. Implications of Display-System Architectures. The Output Pipeline in Software. Scan Converting Lines. The Basic Incremental Algorithm. Midpoint Line Algorithm. Additional Issues. Scan Converting Circles. Eight-Way Symmetry. Midpoint Circle Algorithm. Filling Rectangles. Filling Polygons. Horizontal Edges. Slivers. Edge Coherence and the...

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