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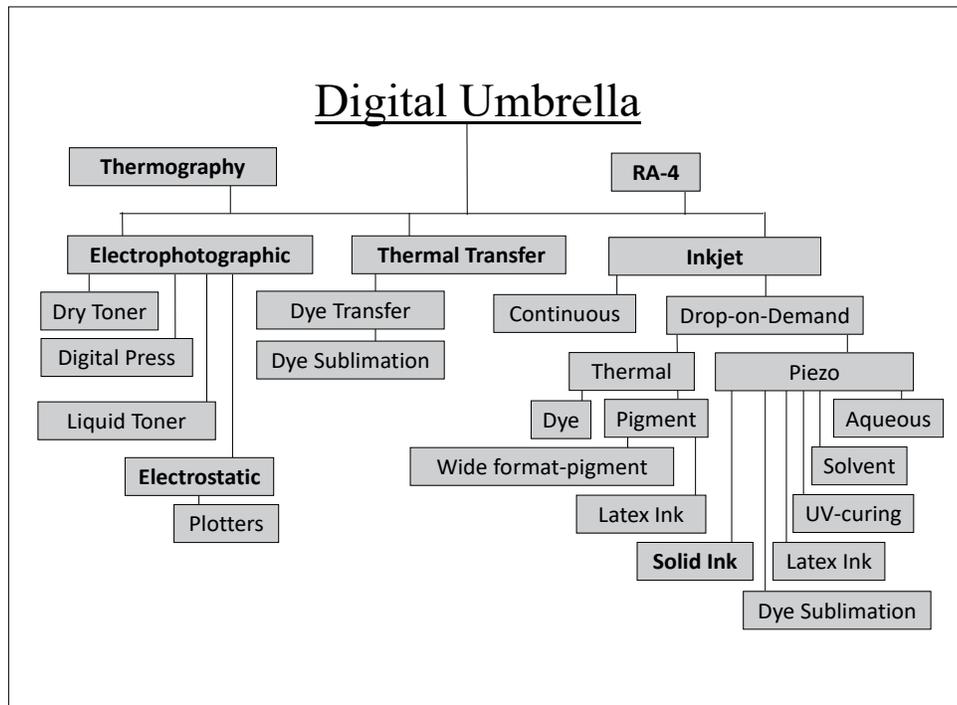
CLASS: Lecture/PPT (2 hour)  
Sunday, March 1, 1:30-3:30pm

TITLES: **Mastering Mounting: Handling Digitals 2026**

OBJECTIVES: All giclée are inkjet, but all inkjet are not giclée. First you need to know what you have; only then can you select the correct technique for handling it. This session will explore and compare mounting alternatives, adhesives, and substrates to handle art and signage in the 21st century.

BIBLIOGRAPHY, REFERENCES, READING:

Johnson, Harald and C. David Tobie. MASTERING DIGITAL PRINTING, Second Edition  
Digital Process and Print Series, Thomson Course Technology, Boston, MA, 2005.  
Paschke, Chris A., CPF GCF, THE MOUNTING AND LAMINATING HANDBOOK, Third Edition, Designs Ink Pub, 2008.  
Paschke, Chris A., "Paschke Online: Article Archive and Reference Library", <https://designsinkart.com/library.shtml>  
PFM, *Mastering Mounting*, monthly column.



## Mastering Mounting: Handling Digitals 2026

### I. Digital Umbrella 2025

Thermography and RA-4 are disappearing  
Dye Sub is now Thermal and Inkjet  
Printed canvases are now mostly Solvent (Eco-solvent), UV, and Latex  
Some are considered for fine art, most are not

### II. Typographic Method

#### Thermographic Printing

*Direct Thermal* = Paper coated to change color  
*Raised Print Process* = Plastic resin powder heated to puff 3D

### III. Digital Print Technologies

**Electrophotographic** = *Dry toner B&W and four-color copies from an existing document*

Wet liquid ink photocopying and dry xerographic toner copying. Xerography is Greek for "to write dry" and is an electrically charged drum that receives an illuminated image that is converted into a dot pattern.

*Dry Toner (B&W and Color)* = Brother, Canon, HP, Lexmark, Xerox

*Liquid Toner (Color Digital Presses)* = HP Indigo

**Electrostatic Printing** = *Pigmented toner on dielectric paper not used for fine art, laser printers*

Uses static electricity to transfer an image to a charged drum. A laser negatively charges a cylinder to the image pattern, positively charged toner is attracted to the negative areas of the drum, special dielectric paper is pressed against the drum to receive the toner and is set through heat rollers. This process uses a heat set ink, not thermal papers.

*Plotters and Printers (monoprint & Color)* = HP, Roland, Epson

**Thermal Transfer** = *Four-color dye and pigment on a ribbon of wax-like paper that transfers with heat*

A head comes in direct contact with the uncoated side of the wax ribbon pushing the inked ribbon to the surface of the paper. Ink is heated and transfers to the surface as a dot pattern.

*Dye Transfer* = Brother, Epson, Zebra

*Dye Sublimation* = Epson SureColor, HP

**Inkjet Printing** = *Liquid inks sprayed as dot patterns onto assorted substrates*

What is Inkjet?

Process = Thermal vs. Piezo

Format = Rollfed and Flatbed

Size = Desktop, Large (18-36") Wide (36-120"), Grand Format (over 10')

Inks = Aqueous, Solvent, EcoSolvent, UV Curing, Latex, Sublimation

Four Basic Technologies - Aqueous, Solvent, UV Curable, Latex

Inkjet vs. Giclée

Archival Inks

Is Solvent Giclée?

*Continuous Flow/Tone* = *Tight dot pattern that appears continuous*

Such a fine dot pattern is created when jetted, a 300 dpi appears to be that of 4000 dpi

IRIS, Epson, Roland, Canon, HP Z-Series = Fine art giclée and photo realism

*Drop-on-Demand (DOD)* = *All other technologies*

**Thermal** = *Heats ink in a reservoir, pressurized and jetted onto paper*

HP PhotoSmart, DesignJet; Canon imagePROGRAF

Dye based aqueous inks; swellable coated media

Provide vivid color; most not waterproof; subject to most rapid fading

Pigment based aqueous inks; often marketed as "archival quality"

Better long-term durability and UV- resistance.

**Piezo** (Micropiezo, Piezoelectric) = *Ink squeezed through nozzle when voltage is applied*  
Epson, LexJet, Ricoh, Roland, Mimaki  
Liquid or solid; water, solvent or oil on microporous coating

**Aqueous Inkjet** = *Pigmented, Water based, Embeds into receiving layer*  
Desktop, Large format, Wide format  
Used in fine art and large format images

**Solvent Inkjet** = *Pigmented, Waterproof, UV-resistant without special over-coatings*  
**Eco-Solvent Inkjet**  
Epson, Roland, Mutoh  
*Hard solvent* ink requires specialized ventilation for fumes  
*Mild or Eco solvent* ink for enclosed spaces  
Dominantly uncoated vinyl, flexible surface signs, banners, exterior use

**UV-Curing Inkjet** = *Cured by exposure to strong UV-light, totally dry once cured*  
Canon, Lexjet, HP, Ricoh  
Wide and Super wide format, commercial use  
UV radiation creates a chemical reaction of cross-linking into a solid  
Uncoated substrates = wood, stainless, ceramic tiles, plastics, glass, aluminum

**Latex Inkjet** = *Aqueous pigment ink printed on low-cost, uncoated, solvent media*  
**Resin Latex Inkjet**  
Developed and released by HP in 2008;  
Ink evaporates; latex particles bond into a durable film;  
Dry and ready-to-use out of the printer on all media  
Designed for vinyl and flexible signage (Tyvek)

**Dye Sublimation Inkjet** = *transfer or direct print for fabric, requires heat curing*  
Epson, Mimaki, Mutoh, Roland  
Replaces screen printing for polyester textiles  
Heat set, is permanent and washable

**Solid Ink** (Phase Change) = *Solid to melted to solid, CMYK color stick or wax puck*  
Xerox Versalink  
Dye in wax applied to paper creates a slightly raised surface; mostly commercial

#### **IV. Digitally Printed Canvases**

Shear Strength vs. Tear Strength  
Mounting Digital Canvas and Photos  
HA Board Comparisons  
High Temperature = 180F  
Bainbridge HAF, Single Step,  
Medium Temperature = 150F-160F  
Step 150 – discontinued  
SpeedMount, Kool Tack, Gilman InSite  
Low Temperature = 130F  
Gilman MountCor, Mount Cor Canvas (permanent HA)  
Reversible Boards = KoolTack Preserve, Bainbridge Restore = 150F-160F

#### **V. When in Doubt ...Cold Mount**

High Tack PSA with Rollers  
HA-PSA-Cold Film Applications and Comparisons