

About Backdrops

What is a backdrop

□ Vertical surface picturing scene from very far away to immediately behind the horizontal railroad and scenery



□ Add middle distance scenery

- Nature (e.g., mountains) or man-made (e.g., urban)
- Why backdrops are important
 - Adding a backdrop (background scenery) to your model railroad is one of the simplest and most effective ways to enhance its overall appearance
 - The backdrop helps set the context in which the railroad operates



Backdrop Alternatives

- Alternative ways of making a backdrop
 - □ Ready-made or custom
 - Paint
 - □ Build-up using cut-out pictures
 - Focus of this clinic
 - Discuss others first
 - Ready-made can be incorporated as cut-outs





On-Line Backdrop Creation Ideas (1 of 3)

- Background skylines, structures, ads & more <u>http://www.gatewaynmra.org/download.htm</u>
 - □ Vintage Product Advertising Signs
 - □ Industrial and Warehouse Buildings
 - Building Interiors
 - Background and City Skylines
 - □ Riverfront Backgrounds

Backdrop Painting Know-How <u>http://www.tttrains.com/tips/bkdrp.htm</u>

- □ Introduction to Backdrop Know-how □ Deb's Advice
- Successful Backdrops
- □ Construction
- □ **Preparation**

- □ Make Some Decisions
- □ Colors
- □ Painting: Some different Techniques
- □ Procedure



On-Line Backdrop Creation Ideas (2 of 3)

- Tips for Painting Clouds <u>http://www.tttrains.com/tips/clouds.htm</u>
 - □ Introduction
 - Creating Distance a quick lesson on perspective
 - □ Supplies
 - □ Making Stencil
- Painting Backdrops with Ease <u>http://www.sierrascalemodels.com/Art_Paint.htm</u>
 - □ The sky
 - Clouds -- cumulus, cirrus, and status
 - □ Fair weather, puffy little clouds
 - Sometimes clouds have rain in them
- □ The paint
- □ Force perspective
- If you are not happy with your results, remember you can repaint the wall blue and start over
- Personal experience Painting Clouds <u>http://modelrr.oakviewresources.com/paint.htm</u>



- Preparation
 - □ Procedure
 - Cautions or common mistakes
 - □ Helpful Hints

On-Line Backdrop Creation Ideas (3 of 3)

• Typical presentations on You Tube. Search for more.

www.youtube.com/watch?v=MDwMkPebUGA

66 min - Amy Colburn, Professional Mural Artist, explains the components, or elements, that create a really outstanding backdrops.

www.youtube.com/watch?v=nym45geDiz4

5 min - Hand painted backdrop for an O guage model train layout

www.youtube.com/watch?v=wJGHBTvOG28

4 min - Fast and easy way to make a backdrop for model railroads, war scenes, dioramas.

www.youtube.com/watch?v=7zoFs9HOsTE

22 min - How to Make Backdrops for Model Trains



Commercial Urban Backdrops (1 of 2)

- Install out of the box as backdrop
 - □ Glue to Masonite, sheet styrene or other backdrop support
 - Can't mix brands —each has own tone, color balance, size, style, sky color
- Walthers Instant Horizon Background Scenes <u>http://www.walthers.com/exec/productinfo/949-712</u>



Detail Associates
 <u>http://www.walthers.com/exec/productinfo/229-7502</u>





Commercial Urban Backdrops (2 of 2)

Backdrop murals canvas for model railroad layouts
 <u>http://www.backdropwarehouse.com/indexbdwh.htm</u>
 Appear to be same site



Backdrop Junction http://www.backdropjunction.com/



They sell Cut Out Kits printed on an adhesive vinyl paper with a matte finish. Also do custom orders.



8 • Others — search on "model railroad backdrop"

Using Individual Buildings (1 of 2)

Cut building out of commercial backdrops

- □ Cut out using straight edge and sharp hobby knife
- □ Need to eliminate all sky because it will be wrong color
- □ Scan the picture for duplicate or different size



• Use prepared cardstock cut-out buildings as low-profile or flats

- □ Check out http://www.cardmodelers.org/
- □ Free files for you to print (try searching for more)
 - http://www.gatewaynmra.org/download.htm#backgrounds
 - Actual historic buildings associated with Abraham Lincoln & Illinois main street <u>http://www.illinoishistory.gov/ps/construct_mainstreet.htm</u>
 - Free paper models of buildings from around the world <u>http://www.ss42.com/pt-buildings.html</u>



Using Individual Buildings (2 of 2)

- Cardstock cut-out buildings for sale
 - □ **Preprinted**
 - Kingmill Radical Flats backdrop buildings are digitally printed on high quality 11 x 17 inch, 80 lb. cover stock <u>http://www.kingmill.com</u>
 - Qaz
 - Wsx

□ Download & print yourself (sometimes a freebie)

- http://www.scalescenes.com
- http://clevermodels.squarespace.com/
- http://www.rpgnow.com/product/16634/Cheepsville-USA-Rural-America-Commercial-cardstock-buildings?it=1
- <u>http://www.erichotz.com/whitewash.html</u> (wild west)
- □ Software design program
 - Modelbuilder create custom buildings & print <u>http://www.modeltrainsoftware.com</u>

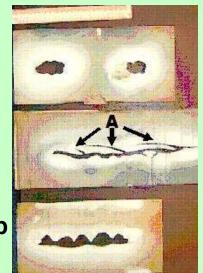


Painting Backdrop

- Sky needed whether you paint or paste buildings
 - □ Sky is darker overhead and lighter at horizon
 - Use two shades or tints of blue paint. Blend where they meet to get third shade

□ Clouds

- Pictures of clouds <u>http://www.freefoto.com/browse/?query=clouds</u>
- Make stencils for the clouds out of cardboard
 - □ The "wisps" (A) turned out to not be a good idea when the stencils were used repeatedly
 - Decrease cloud size from top to bottom of backdrop
 - □ Use paint sparingly







More Cloud Tips

- Change stencils often
- Never spray near the outside edge
- Change position of stencils between blasts of paint: clouds will appear 3-D with the different layers of paint
- For the tops of clouds- hold the stencil 1/2 inch away from wall, giving a sharp edge
- For the bottoms of the clouds-hold stencil 1-2 inches away from backdrop, giving a soft fuzzy edge
- Overlay stencils to achieve shape/size variations
- Begin with the small horizon clouds: these multiple horizon clouds will receive overspray from the clouds above them, thereby creating atmospheric haze
- For storm clouds (below), spray gray paint first and then over spray with white to the desired density.





Pictures from Internet Resources

- My personal collection <u>http://www.trainweb.org/BackdropFigures/</u>
- Great Buildings <u>http://www.greatbuildings.com/</u>
- Image Collections for Architectural History <u>http://www.brynmawr.edu/Acads/Cities/imgb/chartnn.html</u> <u>http://www.brynmawr.edu/Acads/Cities/imgb/digcapt5.html</u>
- Urban landscape <u>http://scriptorium.lib.duke.edu/diap/</u>
- Library of Congress Architecture <u>http://lcweb2.loc.gov/ammem/collections/gottscho/</u>
- National Building Museum http://www.nbm.org/
- National Trust for Historic Preservation http://www.nationaltrust.org/
- Building photos by city <u>http://www.buildingphotos.com/</u>



More Pictures From the Internet

Search for Backdrop Pictures

□ Image search engines

- List of list of major well known photo-sharing websites @ Wikipedia <u>http:// en.wikipedia.org/wiki/List of photo sharing websites</u>
- Google images <u>http://images.google.com</u>
- Yahoo image search <u>http://images.search.yahoo.com/</u>
- Flickr pictures <u>http://www.flickr.com/</u>
- Pic search <u>http://www.picsearch.com/</u>
- □ Regular search engines
 - Search for specific images (e.g., firehouse picture)
 - Use "picture," "photo," or "image" as search term



Great Idea for Pictures From the Internet

- Register on auction sites (such as eBay <u>http://www.ebay.com/</u>)
 - □ Postcards, photos, pictures
 - □ Many auction items contain pictures
 - □ Search for your interest (e.g., Pittsburgh)
 - □ Save search so that "hits" are emailed to you
 - Search: pittsburgh –pirates –steelers
 - Click on: Add to Favorites
 - Check box:
 Email me daily whenever there are new items

for | 12 months

Typical Ebay email extract



The University of Pittsburgh's Heinz Memorial Chapel Pittsburgh, PA. **\$10.00** (Obids) Time Left: 9d 22h 19m Add to watch list



<u>U.S.S. Pittsburgh 1920</u> <u>Thanksgiving Invitation Menu"OB</u> **\$3.95** (0bids) Time Left: 6d 22h 2m <u>Add to watch list</u>



Using a Picture from the Internet

- Select the largest image available
 - □ Right click on picture
 - □ Select "save picture as" or "save image as"
 - □ Save as type "jpeg"
 - □ Save in dedicated directory that you'll remember



File <u>n</u> ame:	deptst	•	<u>S</u> ave
Save as <u>t</u> ype:	JPEG (*.jpg)	•	Cancel



Crop & Resize Pictures

- You need a tool (application) that will crop & resize the picture
 - □ Powerpoint will work
 - □ Most photo programs will work
 - □ For Windows I recommend a free program "Irfan View" <u>http://www.irfanview.com/</u>
 - iPhoto, which ships free on every Mac, will handle the image editing
- Crop the picture to select the item you want







Perspective

- Try to keep a roughly consistent perspective on all the buildings
 Not good to be looking down on some and head-on to others
 Select pictures with consistent viewpoint
- Where is the sun?
 - □ Beware of inconsistent shadows
 - □ Try to choose pictures without shadows
 - Flip building pictures horizontally to get all shadows on same side



□ The two pictures below are inconsistent in position of sun









Sharpness, Resolution & Printing

- Distance makes object look fuzzy & obscures details
 - □ Air pollution also makes them look dull
 - Use software to reduce brightness, contrast, and color saturation
- Resolution suitable for web pages is good enough for backdrop
 - □ 100 dpi (dots per inch)

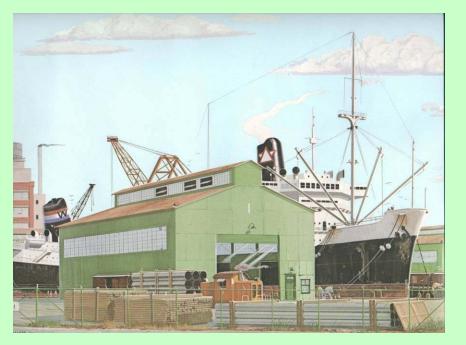
Print on heavy non-glossy paper
 Such as Hammermill Cover Stock
 67 lb Vellum Bristol
 Try using cream color to soften images





Touch-Up Pictures

- Pictures may not be exactly what you want
- Use photo touch-up programs
 Skill gained from experience
- ♦ Example
 - □ Remove unwanted foreground detail
 - □ Cut & paste to fill in



 Some unwanted background can be cut away





Another Touchup Example

♦ Original



♦ Final





Perspective

- Creating illusion of distance a quick lesson in perspective
 - □ Smaller objects appear further away
 - Overlapped objects appear behind
 - □ Objects in the distance have softer edges
 - □ Objects in the distance appear grayer
- Example: warehouses progressively smaller gives illusion of being further away

□ Add "hints" (these buildings are numbered 1 & 2)







More on Perspective

Forced perspective

- □ Article: <u>http://ezinearticles.com/?Perspective-and-Background-in-</u> <u>Model-Train-Layouts&id=3472134</u>
- Blog: Handling 90 Degree Corners...my Trials and Tribulations with Forced Perspective <u>http://model-railroad-hobbyist.com/node/5114</u>
- Book: Building City Scenery: For Your Model Railroad (Model Railroader) by John Pryke
- Use scale to measure height of known object, such as door or distance between floors
- Reduce size to give illusion of distance

Close, foreground	100%
□ Near, 100-500 yards	90 – 100%
□ ¼-1⁄2 mile	80 – 90%
□ Miles	30 – 50%

 Detail in building further away always smaller than one in front of it (e.g., height of window)



Mock Up the Scene

Attach cut outs to backdrop to see how they look
 □ Use Post-it[™] correction tape



- Take photo to guide you when you actually paste
 You have to paste back-to front
 - □ Include some reference point
 - □ Example, building is in front of backdrop



Paste Buildings to Backdrop

• Grayscale print is good enough to use as guide



- "Paint" slightly dilute white glue to back of building
 □ Slide into place if necessary
- When glue is dry (overnight) spray with clear flat for protection



Standoff Spacers for 3D Appearance

- Gluing the picture onto a spacer that is cut to the same outline will provide a 3D illusion effect of depth (distance)
- Foamcore board is probably best and cheapest for this
- Multiple overlays will increase this effect, but you don't want to get carried away
- Bigger ones in back, usually. This violates the forced perspective a bit
- You'll get a little bit of shadow effect as well, depending on your lighting



Views of the Result (1/8)





Views of the Result (2/8)



Views of the Result (3/8)

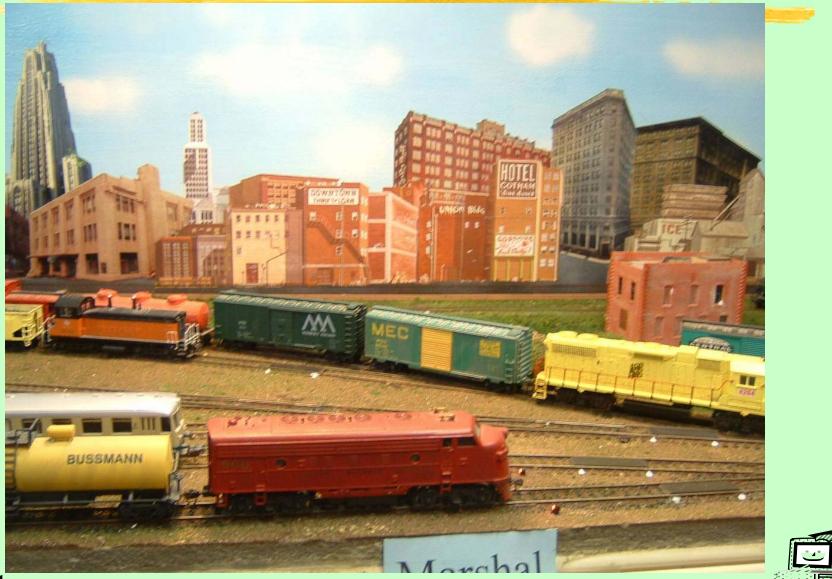




Views of the Result (4/8)



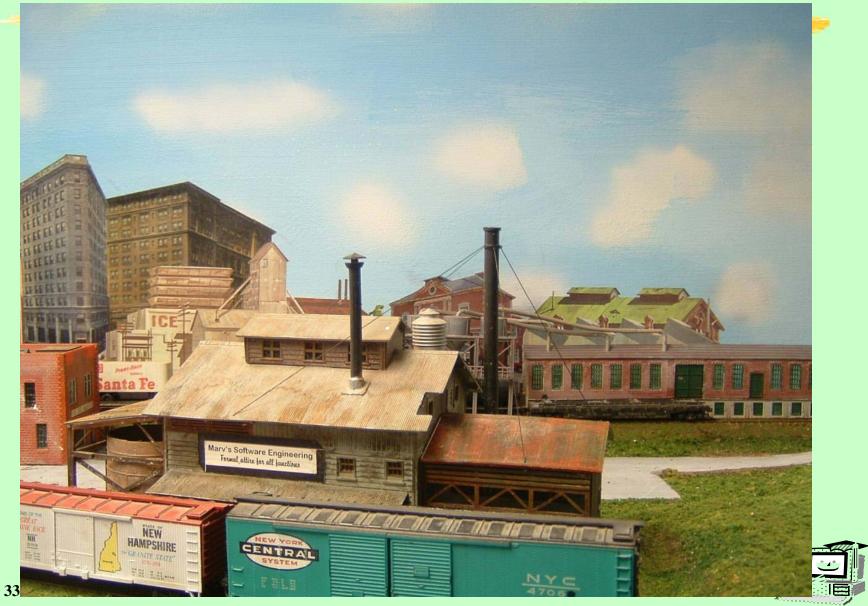
Views of the Result (5/8)



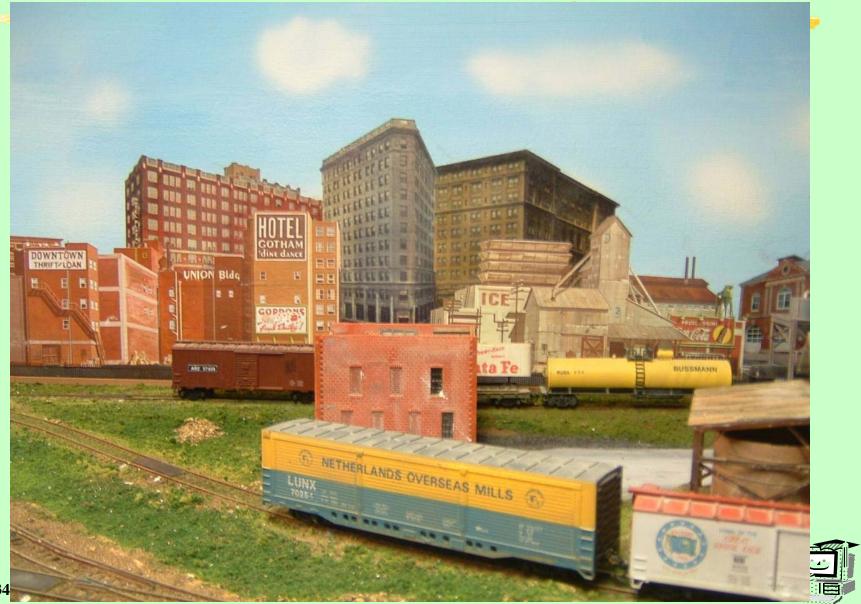
Views of the Result (6/8)



Views of the Result (7/8)



Views of the Result (8/8)



Reference: Top Free or Shareware Photo Editors

 Before you purchase graphics software, it may be worthwhile to try some free software, or at least download the trial versions of the software you are considering before making your purchase. Check these out at

http://graphicssoft.about.com/od/findsoftware/u/whattobuy.htm#s2

Gallery of Free Graphics Software Free Photo Editors for Windows Free Photo Editors for Macintosh Web-based Image Tools ArtRage Free Version Screen Shot & Mini-Review FastStone - Free Image Viewer for Windows Google SketchUp 6 for Windows and Mac IrfanView for Windows Review JAlbum Free Web Photo Album Generator (Multi-Platform) Paint.NET Free Photo Editor for Windows Picasa Free Digital Photo Software forWindows and LinuxWindows Live Photo GalleryWink Tutorial and Presentation CreatorXee for Mac Image ViewerXnView - Free Multi-Platform ViewerFree Image Viewers and Browsers forWindowsFree Image Viewers and Browsers forMacintoshFree Screen Capture Tools for WindowsMore Free Graphics Software



Reference: Articles

- Chick, Ken, "Seamless Aluminum Backdrop," Scale Rails, October 2006.
- Dolkos, Paul J., "Making Realistic-looking Buildings From Photos and Plastic," Model Railroader, May 2012.
- Johnson, Tom, "Continue Your Roads Into the Backdrop," Model Railroader, October 2010.
- Pryke, John, "Expanding Horizons With Basic Photo Backdrops," Model Railroader, July 2012.
- Seeborg, Pelle K., "Using Photos to Make A Panoramic Backdrop," Model Railroader, July 2012.
- Shindledecker, Greg and Angel, "Seamless Aluminum Backdrops Revisited," The Philadelphia Dispatcher (newsletter of the Philadelphia Division, NMRA), October 2011



Reference: Books

- How to Build Realistic Model Railroad Scenery
 - □ Frary, Kalmbach, 1982
- Scenery Tips and Techniques
 Kalmbach Books, 1989
- Scenery for Model Railroads, Dioramas, & Miniatures (3rd Ed.)
 Schleicher, Krause Publications, 1999
- Building City Scenery for Your Model Railroad
 Pryke, Kalmbach, 2000
- Scenery for Your Model Railroad From Backdrop to Tabletop
 Danneman, Kalmbach, 2001
- Painting Backdrops for Your Model Railroad

 Dike Danneman, Kalmbach, 2008

