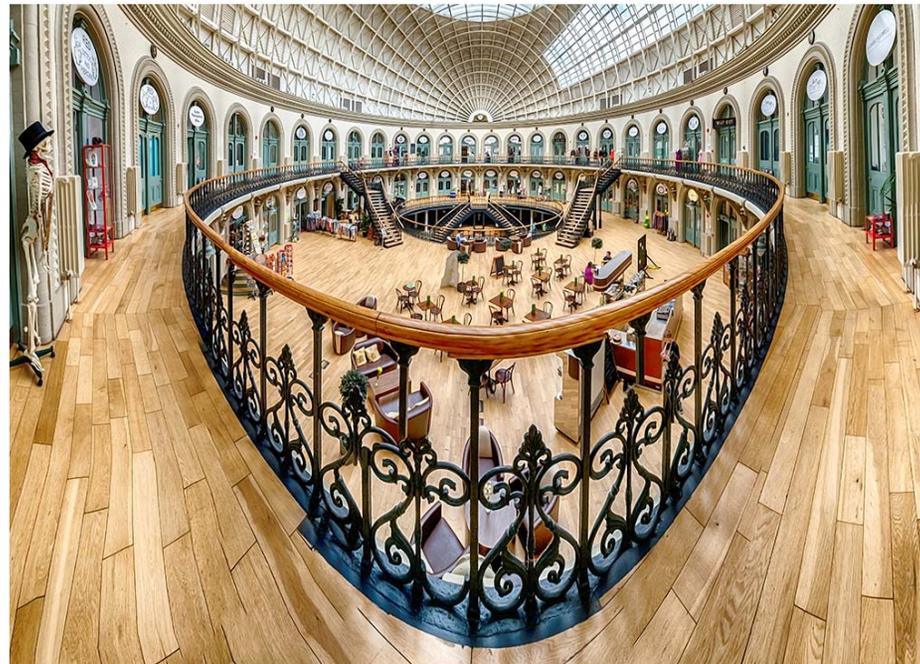


TWPC

Tettenhall Wood
Photographic Club

Panoramic Images



Glynn Thomas
rev NC

Contents

- Section of Images
- Nodal Point
- Basic Pano processing
- Have a go!

The Corn Exchange

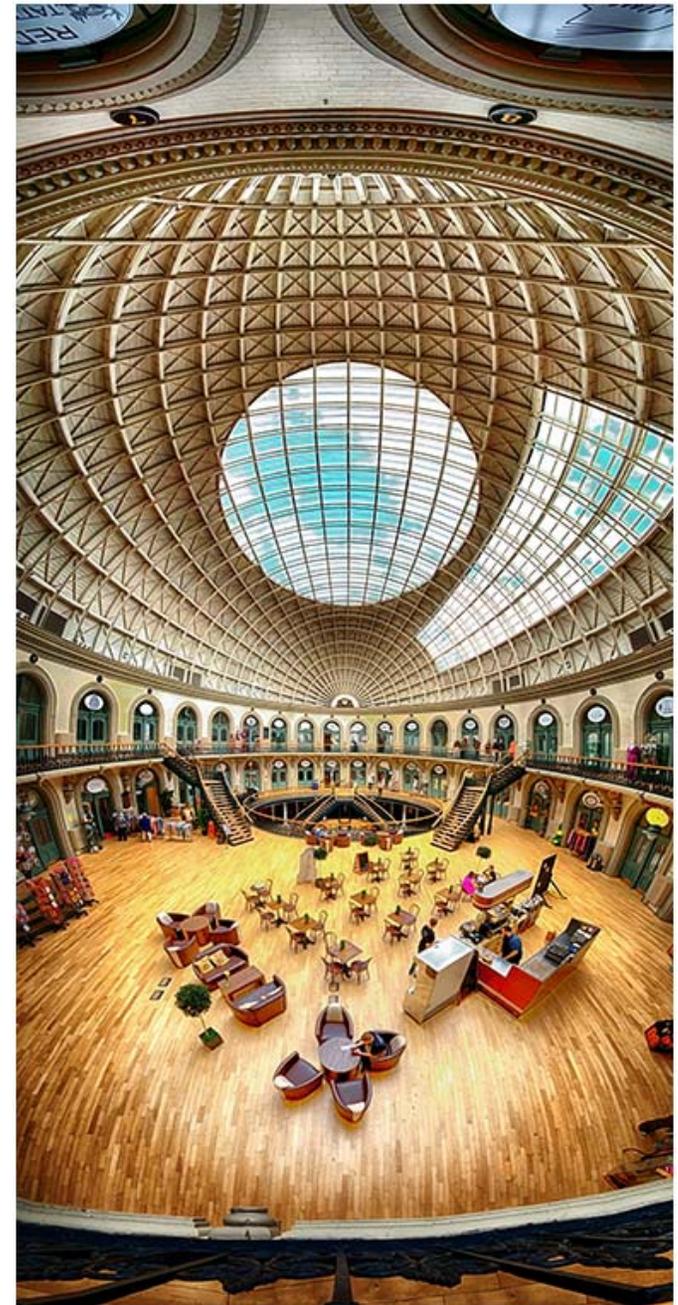


The Corn Exchange

- Location - Leeds
- Tripod mount x8 (ish) portrait images
- Rotation about camera mount (not nodal point)
- 10-20mm sigma lens (DX)
- Minimal fiddlin' to remove clutter

The Corn Exchange Vertorama

- Location - Leeds
- Hand held
- x10 (ish) landscape images
- 10-20mm sigma lens (FX)
- Puppet warp to square up
- Clone out my feet!



360° Garden



- Location - Portmeirion
- Tripod mount x6 portrait images
- Rotation about nodal point
- 16-35mm Nikon lens (FX)
- Each image first reduced to 50% (memory size!)
- Couldn't get bottom of flower beds in – bummer!

Upstairs Downstairs Vertorama

- Location – Inveraray Castle
- Hand held
- x12 landscape images
- 10-20mm sigma lens (FX)
- Puppet warp and skew to square up
- Clone out some highlights



Hotel Bar



- Location - Shanghai
- Tripod mount x6 portrait images
- Rotation about nodal point
- 16-35mm Nikon lens (FX)
- Each image first reduced to 50% (memory size!)
- HDR pre-processing (story for another day!)

Oasis in the city



Oasis in the city

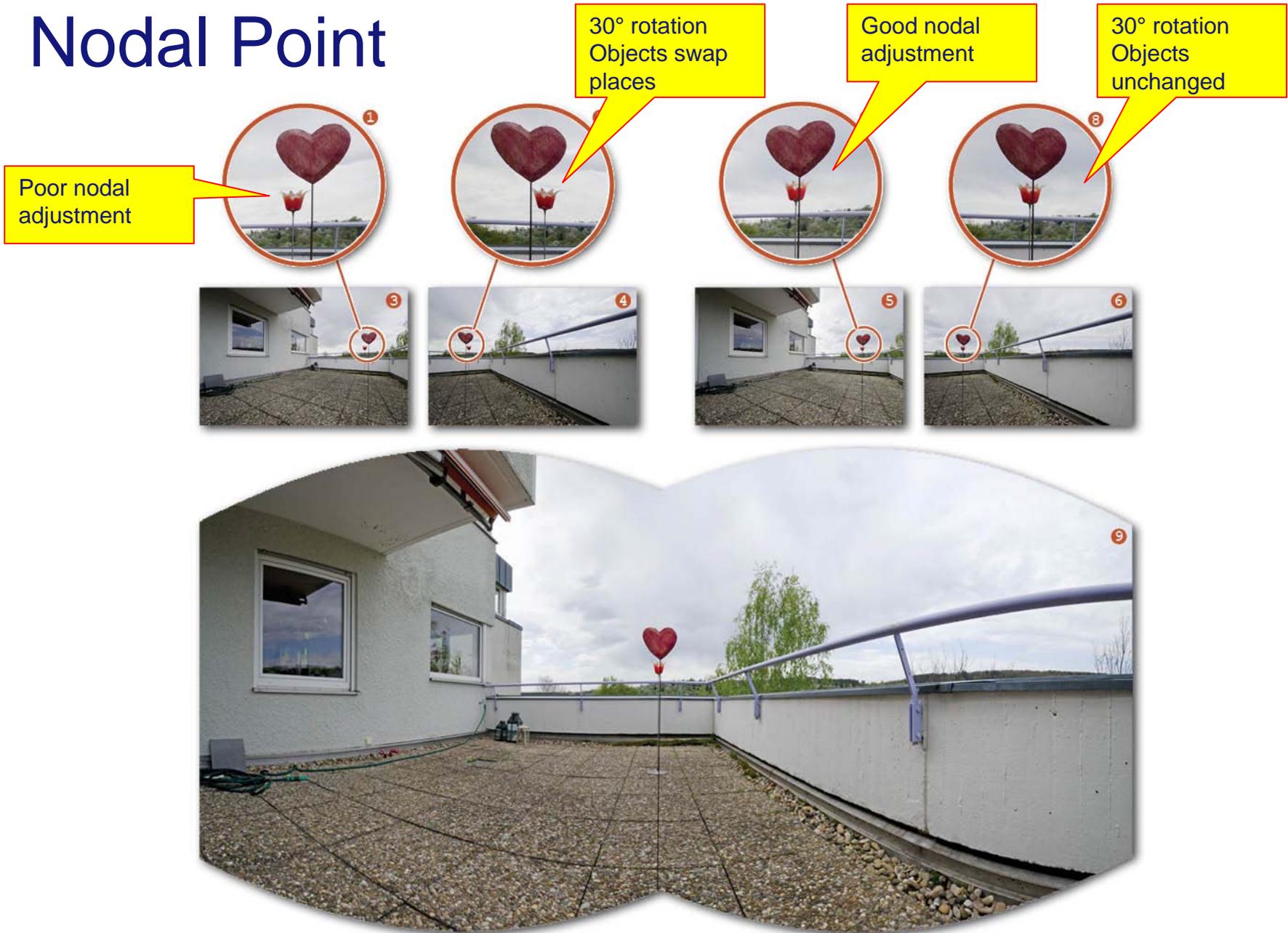


- Location - Shanghai
- Tripod mount x6 portrait images
- Rotation about nodal point
- 16-35mm Nikon lens (FX)
- Each image first reduced to 50% (memory size!)
- Clone to create tops of buildings (ahh!)
- Globe processing
 - Create 360
 - Stretch to square format
 - Turn upside down
 - Filter > Distort > Polar Coordinates (Rectangular to Polar)

Nodal Point

- What is the nodal point?
- Rotational centre of lens is not the rotation axis of camera mount
- This can produce parallax errors
- Produces errors in photoshop stitching
- Try this
 - Hold up one finger vertically on each hand
 - Hold one arm outstretched one close to your face, fingers aligned
 - Rotate your head, do your fingers stay in line?

Nodal Point



Nodal Point

- Arrange two vertical objects
- Rotate camera
- Observe objects
- Moves slider in-out
- All lenses are different
- All focal lengths of zoom are different
- Write down the scale markings



Basic Pano processing

- Taking stage
 - Plan your full shot
 - Careful with levels (use spirit level)
 - Meter for brightest part of image
 - Switch to manual
 - Careful with polarisers
 - Take outdoor images fairly quickly (avoid light changes)
- Pre-process RAW images
 - Apply identical develop settings (lightroom)
- Photoshop
 - File>automate>photomerge
 - > Auto or cylindrical / tick blend, vignette, distortion
 - > Order of images can be a problem
 - Crop and/or fill in missing corners

Basic Pano processing

- The order I wanted



- The order photoshop wanted



- Solution
 - Crop side of one of the 'end' images so it doesn't match up

End