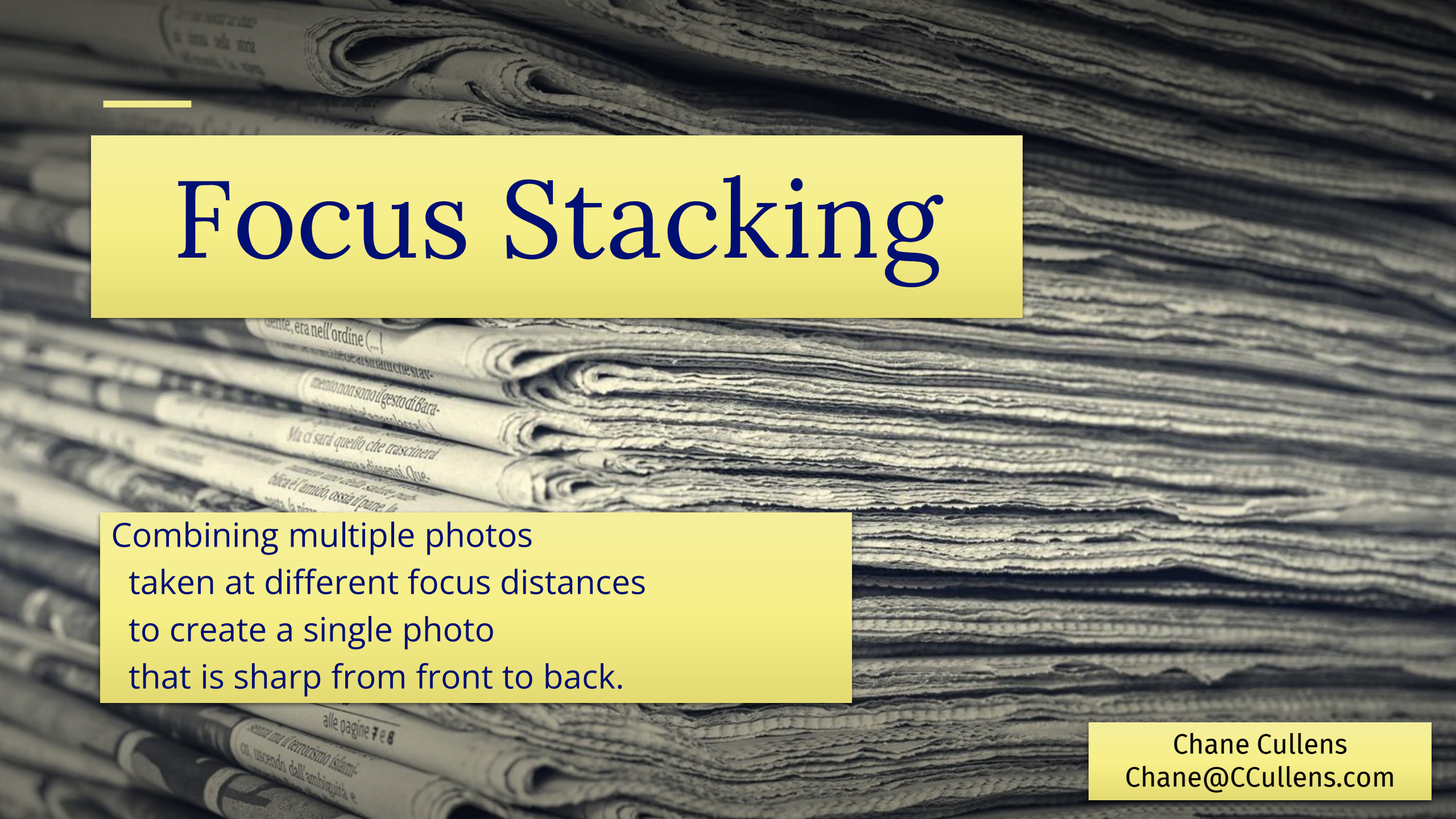




# Focus Stacking

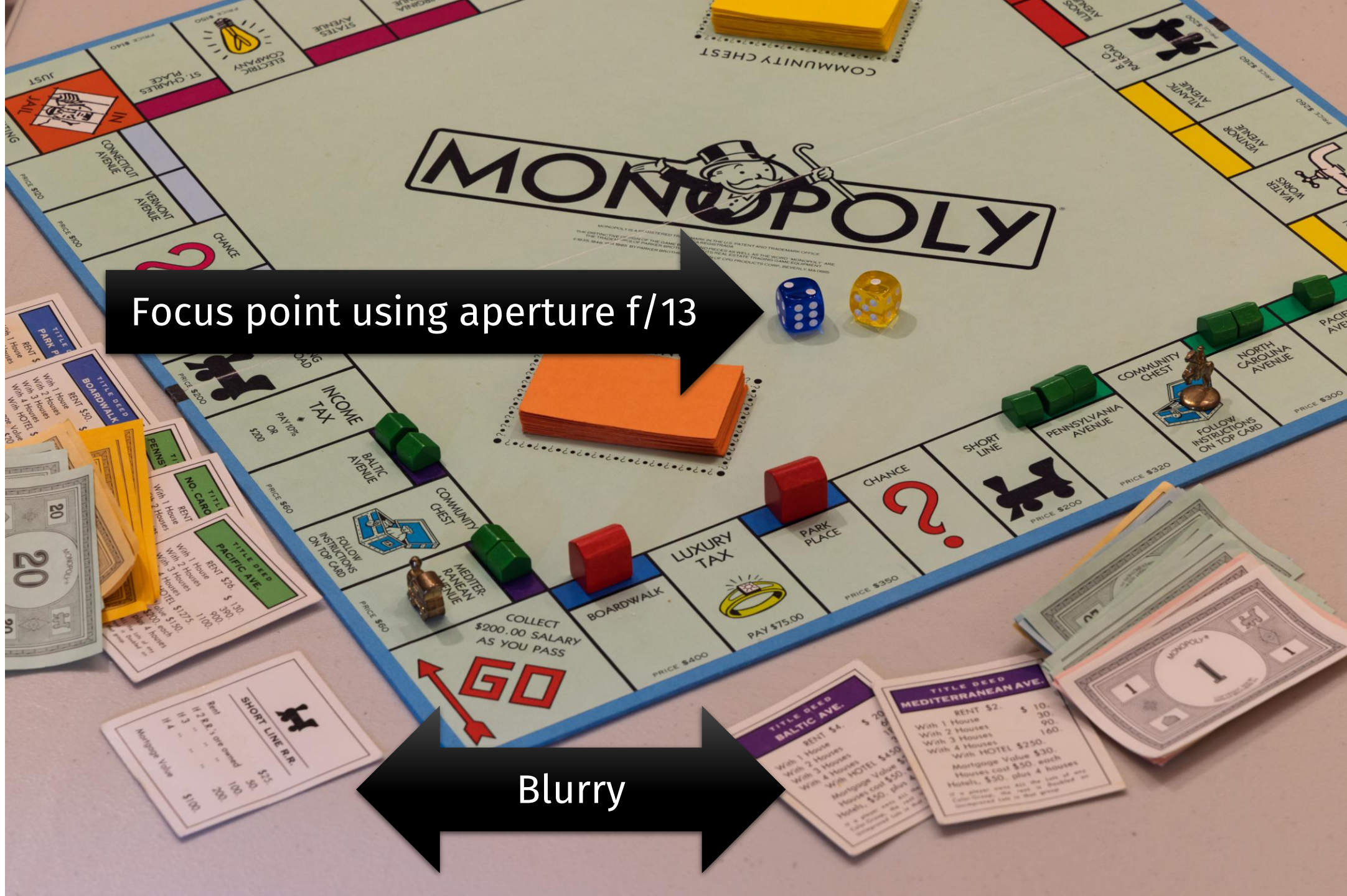
Combining multiple photos  
taken at different focus distances  
to create a single photo  
that is sharp from front to back.

Chane Cullens  
Chane@CCullens.com



Focus point using aperture f/13

Blurry









# Is It Possible To ...

## Alter the scene?

- Change camera angle?
- Rearrange items?

## Alter camera settings?

- Larger aperture number?



# Focus Stacking Capture Process

1

Don't move your camera or scene (lighting, items ...)

2

Only move the focus point

- Varies, often touching the back of the screen

3

Choose focus points that seem to be different distances from the lens

4

Use a medium aperture for your camera (F/9)

# Focus Stacking Editing Process

Editing process varies with software choice.

This example uses Adobe tools.

FYI - In Photoshop Stack Images mode (for focus stacking), it identifies the pixels with the most detail and highest contrast, which corresponds to the sharpest, most in-focus areas.

## Adobe Bridge

- Select photos with various focus points
- Tools -> Photoshop -> Load Files into Photoshop Layers...

## Adobe Photoshop

1. Select -> All Layers
2. Edit -> Auto-Align Layers – Auto
3. Edit -> Auto-Blend Layers – Stack Images
  - With Seamless Tones and Colors checked
4. Delete all stacked layers
  - Since they are huge and no longer needed
5. Start editing the focus stacked '(merged)' layer
6. Save







