

APPENDIX F – CASE STUDIES

The following case studies address specific challenges and offer guidance to solve them.

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This collage of case-study photos was made with ChaptGPT by loading nine photographs with the prompt listed below.



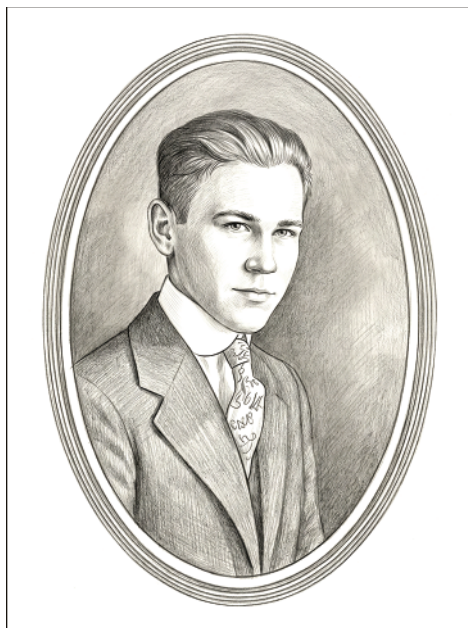
Prompt: *Make a horizontal collage of these photos, randomly placed, with feathered edges, overlaying each other slightly.*

CASE STUDY: PENCIL VS HATCHING SKETCHES

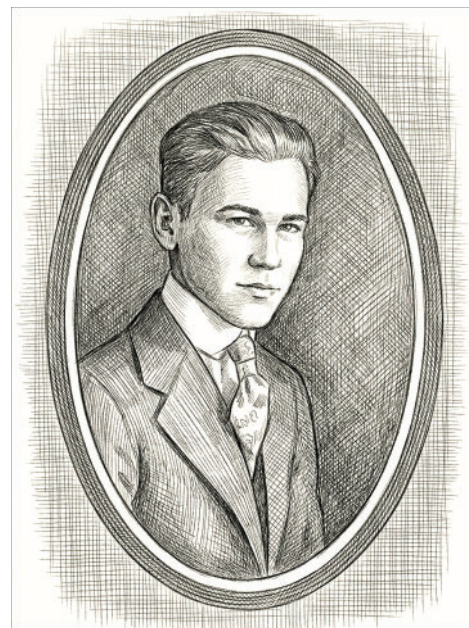
Two sketching styles are primarily used in most applications: Pencil and Hatching. The pencil style is the simplest with the fewest strokes. Hatching adds some interesting strokes; the style consists of many parallel lines. These are most evident in U.S. paper currency portraits, where depth is clearly illustrated.



Notice the Pencil sketch prompt below excluded the background as it was a distraction to the sketch. The background was left intact for the Hatching sketch, which resulted in an interesting look.



Prompt: Create a pencil sketch only from the portrait and oval frame, not the background.



Prompt: Create a pencil sketch in the hatching style of this photo.

CASE STUDY: KEEP A SEPIA TINT

Often, you may want to keep a sepia tint of the restored photo. However, by default, most renderings turn an old sepia photo into black and white. You will need to tell the program to keep a sepia tint in the prompt.

This original photograph was not in terrible shape, but it needed some touch-ups, and this would be a good example of sepia or black-and-white restoration. Notice the respective prompts.



Prompt: *Restore photo, increase contrast, sharpen.*

This was created by ChatGPT and turned the image into a black and white or grayscale image.



Prompt: *Restore photo, increase contrast, sharpen, keep a slight sepia tint.*

Notice the prompt included “*keep a slight sepia tint*”, emphasizing *slight* as sepia can be overwhelming. A slight tint retains the historical look but creates a pleasant image.

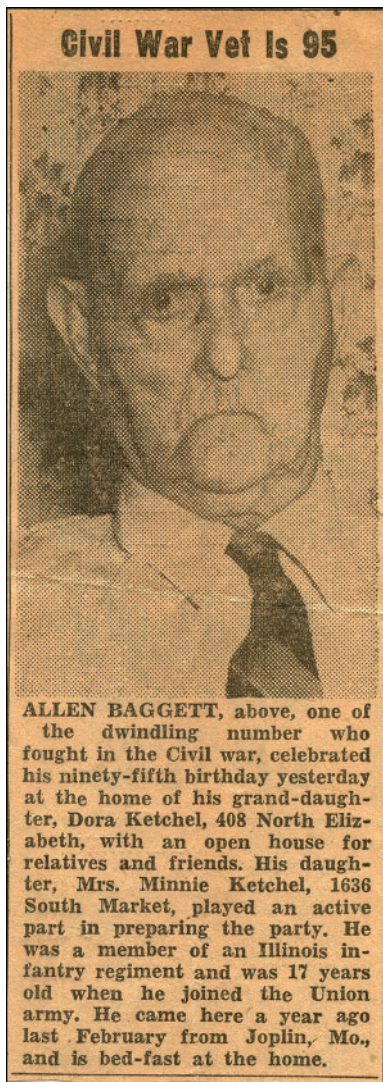


CASE STUDY: OLD NEWSPAPER CLIPPINGS

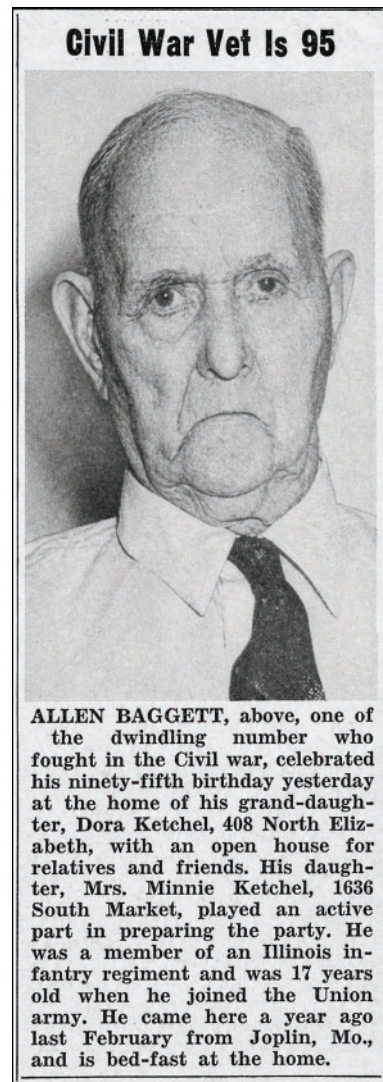
Newspaper clippings tend to turn yellow with age, sometimes very dark. To further worsen readability, the low-resolution printing technology of the time produced visible dots that made up images. This is from a screen laid on the image when making a printing plate. The combination of challenges makes it difficult to reproduce clippings in books and printed reports. AI can also solve this problem.

This April 5, 1940, clipping of a Civil War veteran's story is a valuable historical document that needs to be preserved. ChatGPT brought it back to a wonderful condition.

A simple prompt included the command 'descreen image', smoothing the dots from the printing process, returning the photo to near-perfect condition. (Images are actual size in the newspaper.)



August 5, 1940 – Wichita Eagle, Wichita, Kansas



Prompt: Restore newspaper clipping, create grayscale, descreen image.