

# Pop-Up Accordion Book

Dorothy Yule developed this clever structure for her two miniature pop-up books: Souvenir of New York and Souvenir of San Francisco. By using a double layer of paper, she created a way to make pop-ups on both sides of an accordion fold, without seeing through from one side to the other. This allows the content of the book to be twice as long and the pop-ups twice as many! When you finish reading one side of the book, you can turn the book over and keep reading.

#### INSTRUCTIONS

See "Folding an Accordion," page 44. Fold the paper in half lengthwise. Unfold it and fold it in half widthwise. Then fold an eight-section accordion using a scoring tool to reinforce each fold. Reverse all of the accordion folds (unfold and refold them in the other direction; use a scoring tool to reinforce the folds).

#### STEP 1: CREATE THE FIRST POP-UP

Unfold the paper again to its full size. The diagram, or imposition-in printing terms, this refers to the arrangement of a printed product's pages-indicates the page numbers so that you can lay out your book accordingly. (See the labels added to photograph 1; mark yours lightly in pencil.) This is important if your book has a story line or needs to be viewed in a certain order.

#### STEP 2: DRAW AND SCORE

Beginning on spread one/two, draw a simple rectangular pop-up panel that is centered on the middle fold and is not

wider than half the width of each panel (otherwise the pop-up will stick out when the pages are folded). Using a triangle and a scoring tool, score along the two short edges of the rectangle that are parallel to the center fold.

### STEP 3: CUT AND FOLD

Next, reverse the fold that lies between pages one and two, and using a craft knife or scissors, cut through the two layers of paper along the top and bottom edges of the rectangle. Fold and crease the sides of the rectangle along the score lines so that the rectangle pops up.

#### STEP 4: REPEAT AND ASSEMBLE

Repeat step 2 on each fold (3/4, 5/6, 7/8, %10, 11/12, 13/14). When complete, refold the accordion book structure and carefully pull each rectangle forward, reversing the folds at each side to form the pop-ups.

## MATERIALS

80 lb. text weight paper cut to  $6\frac{1}{4}$ " × 25" (16 × 63.5 cm), with the grain running in the 61/4" (16 cm) direction heavy card stock or box board craft knife cutting mat ruler scoring tool triangle pencil PVA glue glue brush

## CONSIDERATIONS

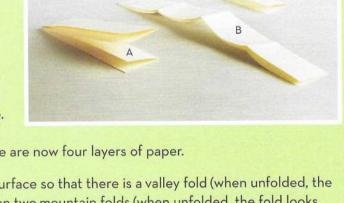
You can create the imagery for the pop-ups in this book using any means you like: drawing, transferring, collage, etc. Dorothy Yule used an old stenciling technique called pochoir to create the colored shapes.

## FOLDING AN ACCORDION

Take these simple steps to fold a perfect accordion, but first, make sure the paper's grain runs in the direction of the accordion folds:

- Place the sheet of paper on the work surface and fold it in half, matching up the short edges as perfectly as possible. Turn the folded paper to position the folded edge at the top of the work surface (A).
- 2. Take the top leaf (here, a double layer because the paper is already folded in half) of paper and fold it up, matching it up with the top folded edge.

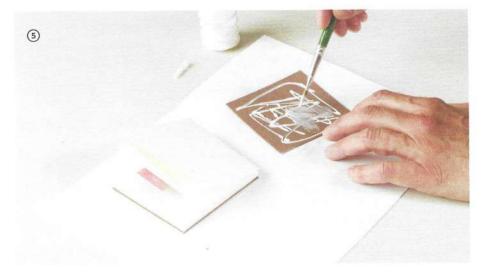
  Crease the fold. Flip the paper over and repeat with the top leaf of paper on the other side. There are now four layers of paper.



3. Unfold the paper gently and set it on your work surface so that there is a valley fold (when unfolded, the fold looks like the letter "V," or a valley) in between two mountain folds (when unfolded, the fold looks like a mountain ridge). Reverse the valley fold so that there are three mountain folds (B). Now fold the top mountain fold up to meet the single leaf edge of the sheet, aligning the edges and creasing the new fold (C). Fold the middle and last folds up in the same manner, aligning all of the edges and creasing each fold. Finally, fold the bottom leaf up to complete an accordion which is half the size of the original (D). There are now eight sections.

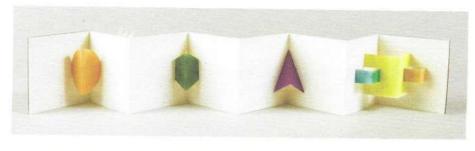
## STEP 5: MAKE COVERS

Cut two pieces of heavy card stock or box board to the width and height of the book. Place one of the covers facedown on a piece of scrap paper and apply glue to the entire inside of the cover. Remove the scrap paper and press the cover onto the front of the accordion. Repeat with the back cover.

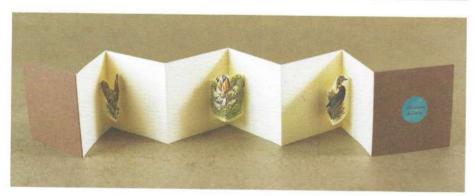


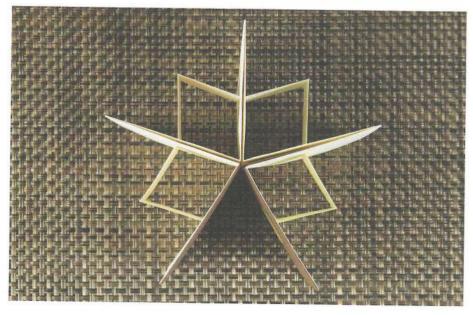
## VARIATIONS

- 1. Change the shape of the pop-ups by changing the shape of the parallel cuts-you can create pop-up circles, hexagons, triangles, and other shapes.
  - 2. Create a silhouette in the shape of an image.
- 3. Cut a secondary pop-up out of the valley formed by the central pop-up: Use a craft knife to cut parallel lines to form two small rectangular shapes that span the valley folds of the central pop-up. Score along the vertical sides on each side of the valley fold. Gently pop the rectangles out from the page, folding and creasing along the vertical score lines.
  - 4. Glue shapes or images onto the central pop-ups.









PAPER ENGINEER: Dorothy Yule POP-UP MECHANISM/STYLE: Double-sided accordion with simple pop-ups PAPER: 80 lb. Mohawk Superfine text weight (accordion); Conservation by Design premier sepia-colored box board (cover) **ILLUSTRATION STYLE:** Pochoir stenciling