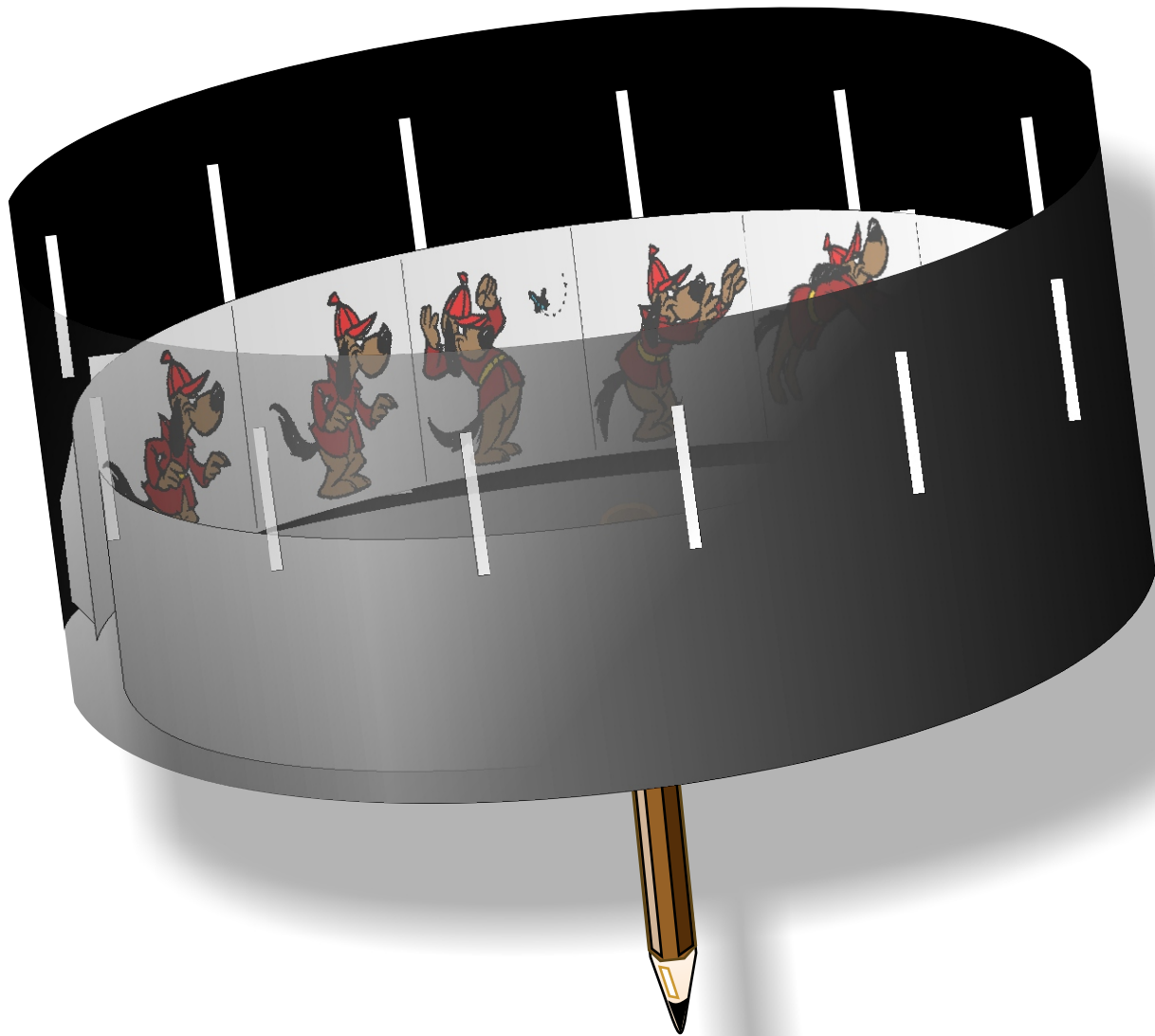


The Zoetrope Project



Create your own
animation studio

Zoetrope Template: *Base*

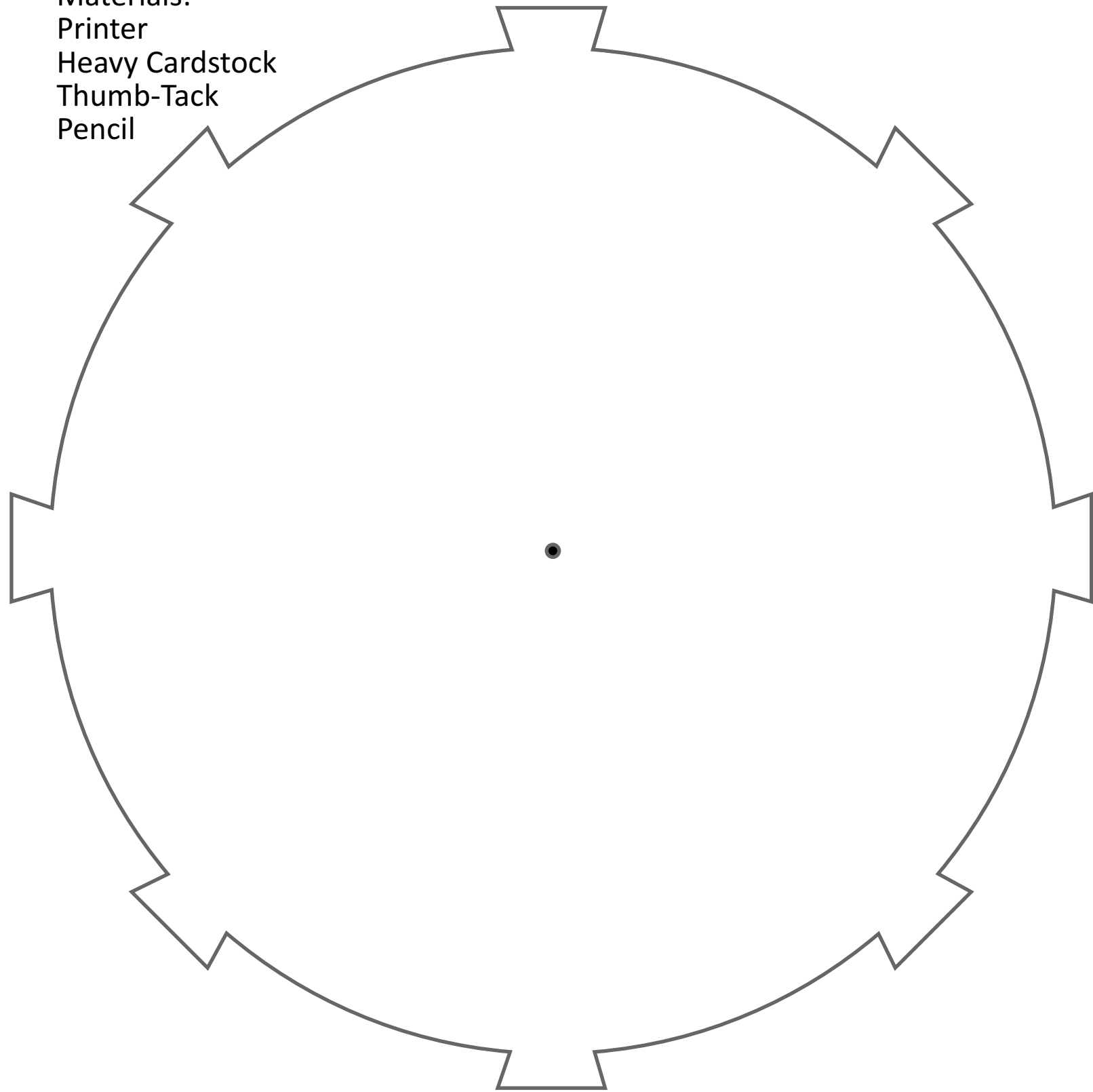
Materials:

Printer

Heavy Cardstock

Thumb-Tack

Pencil

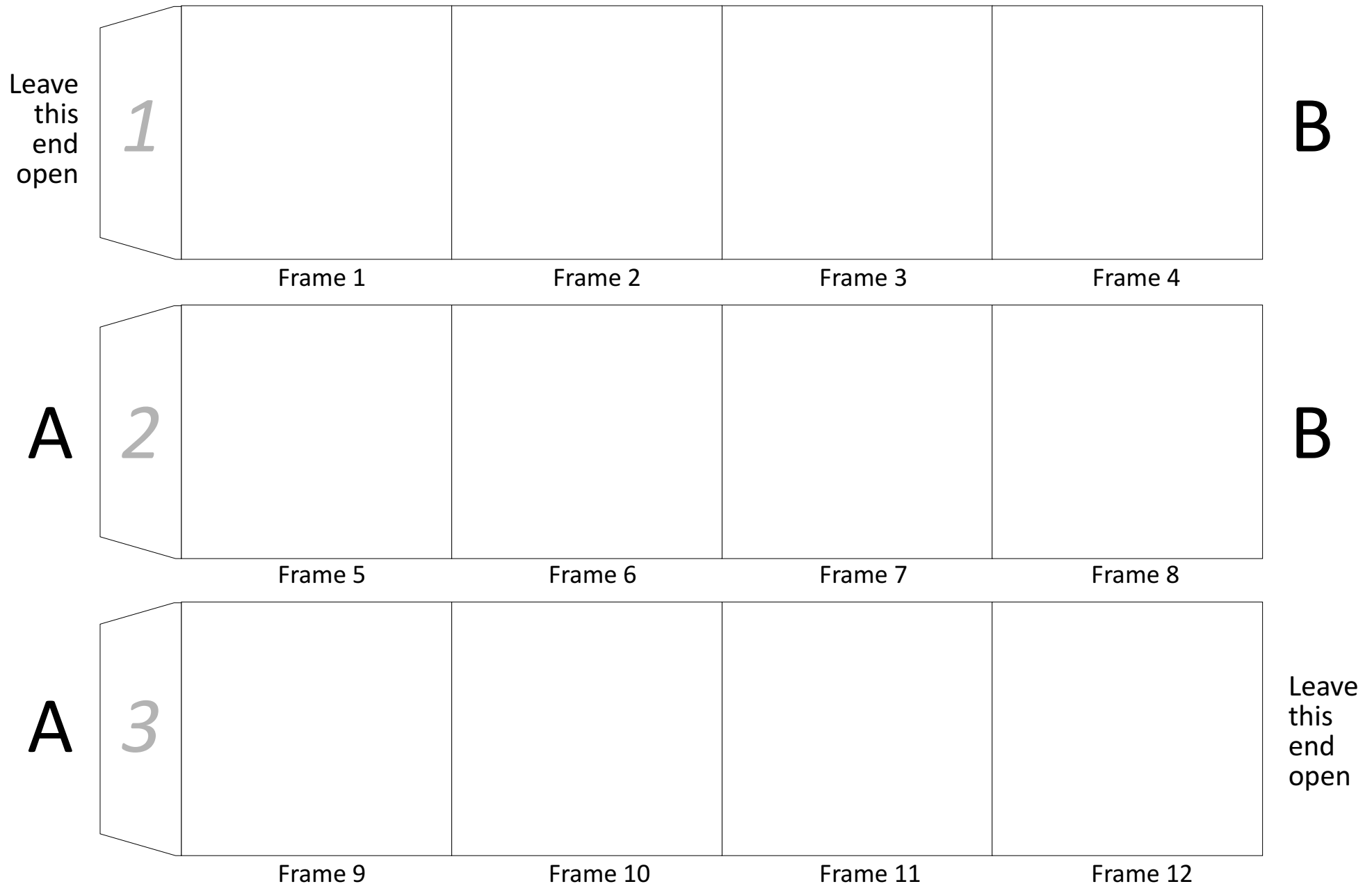


Base: Print, cut, and overlap two of these for added strength, shifting them 22.5 deg from each other, which will space the tabs evenly. Either glue the two together or tape the edges between the tabs. Bend the tabs upward to provide a surface to attach the side pieces (from page 2).



Side Sections: Print this page out twice (four sections are needed). Connect the tabs on end “A” to end “B”, using tape or glue. Four sections are needed to wrap around the circumference of the base (on page 1). An X-acto knife is recommended to cut the slits out of the side panels. The dark color emphasizes the contrast of the animation strip.
Note: If possible to do, the finished effect improves if both sides are black.

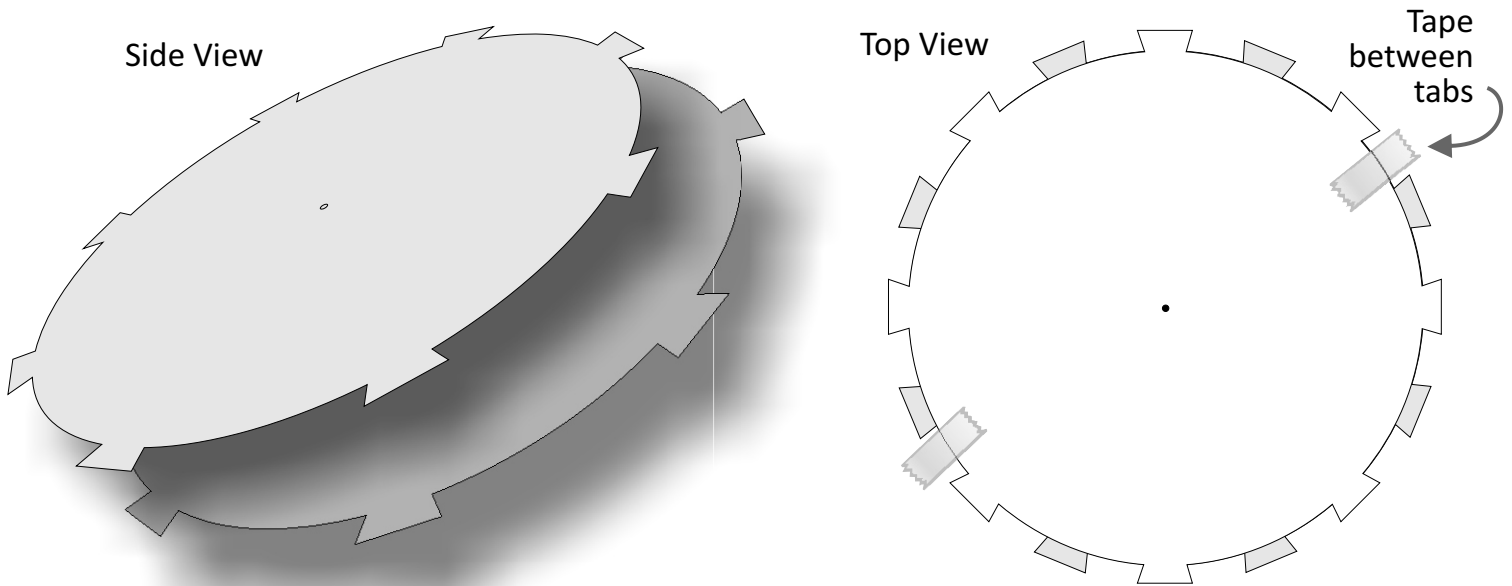
Zoetrope Template: *Strip Template*



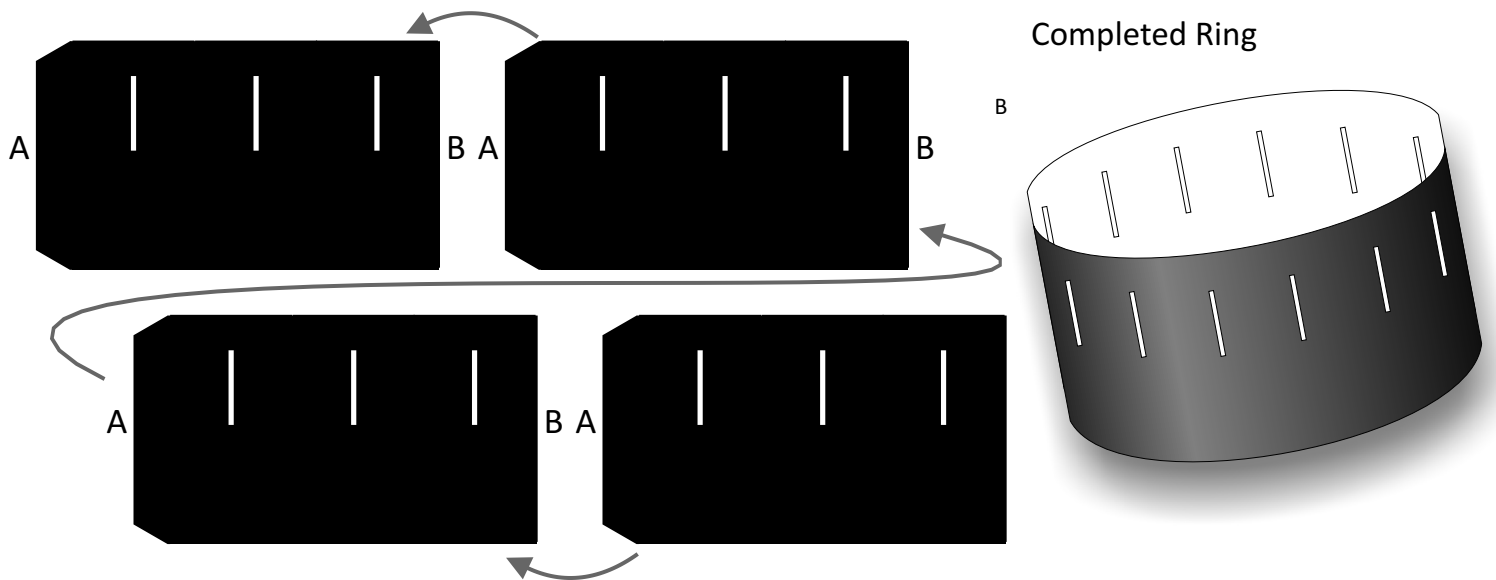
Animation Strips: Draw or print your animated still images onto this template. 12 images are needed. Cut out the above three strip sections and connect ends together (B to A), leaving the beginning end disconnected from the last end (They are easier to store and insert into the Zoetrope when left one long strip, instead of a connected circle).

Zoetrope: *Construction*

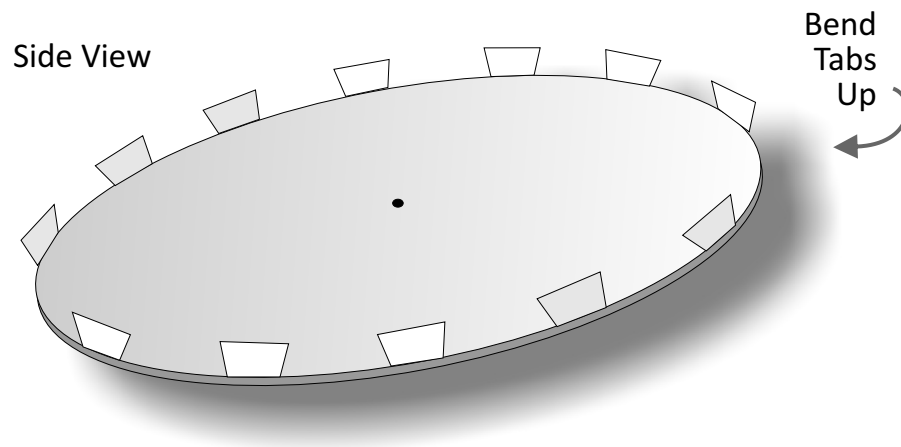
1: Place two bases on top of one another, shifting them 22.5 degrees, evenly spacing the tabs. Glue them together or tape the edges between the tabs.



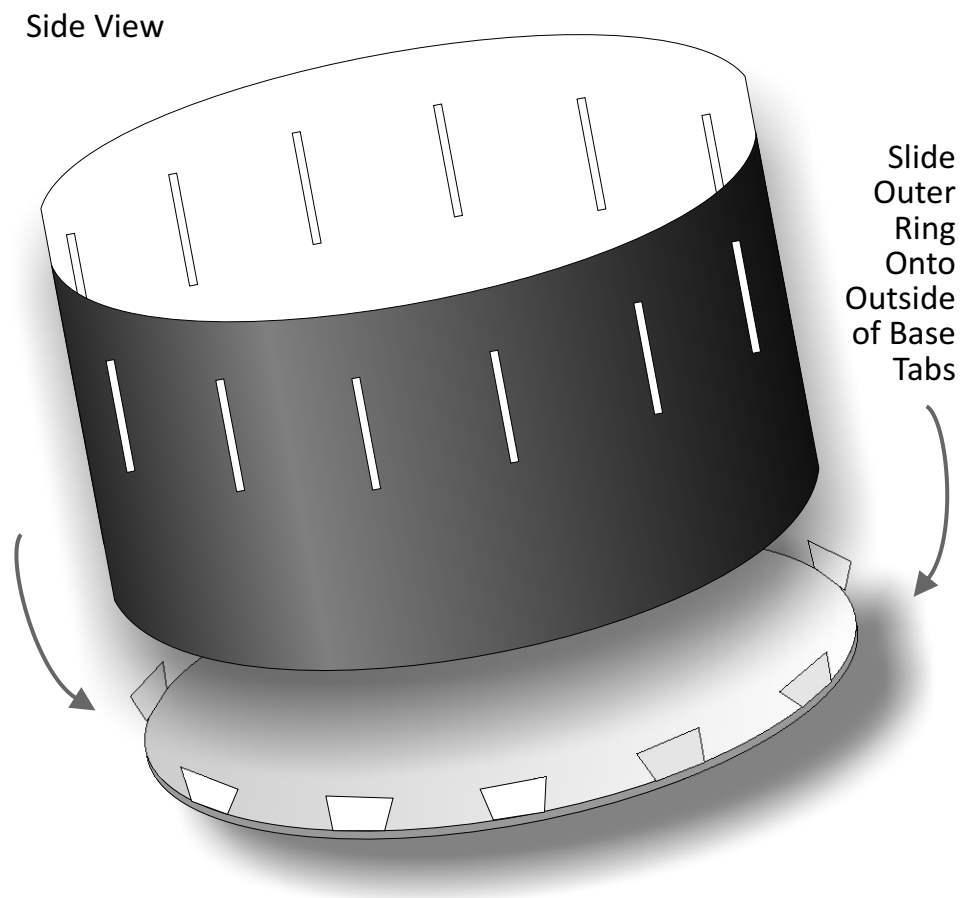
2: Connect four side sections together with glue or tape. Then, connect the ends together to form a ring. If only one side is black, place the black side on the outside of the ring.



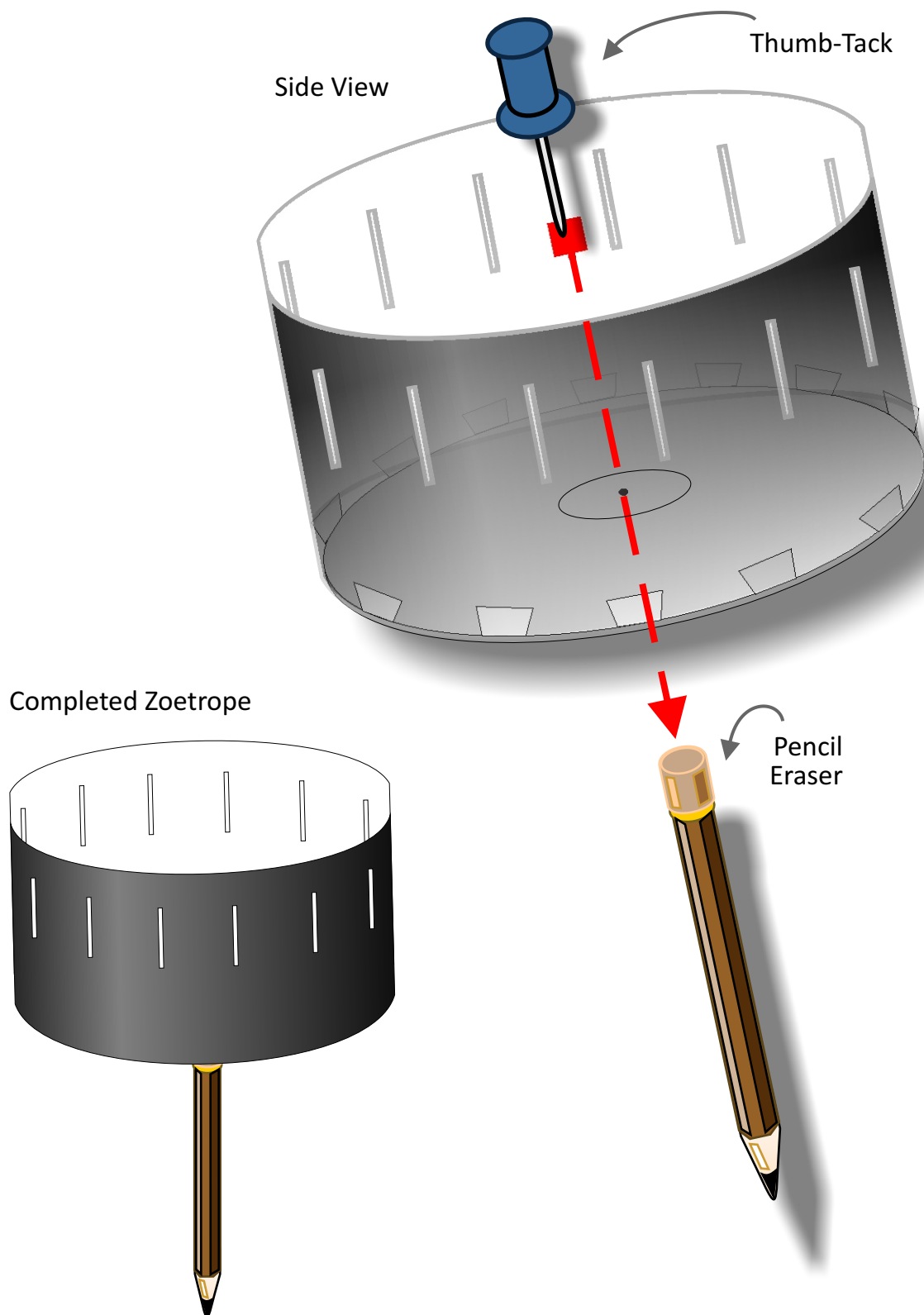
3: Bend tabs on the base up to form small surfaces to attach the outer ring.



4: Slide the large black ring over the tabs of the base and connect with glue or tape.



5: Drive thumb-tack through the dot in the middle of the base and into the eraser of a pencil below.



Zoetrope: *Construction*

6: Connect the three sections of an animation strip that you want to use. Wrap the finished strip into a ring and place inside the Zoetrope. Colored animations usually stand out better when viewing through the Zoetrope.

Example Construction of Animation Strip: Not for use as a real strip; use page 9



Images recreated (Blair, 1988, p.26)

Example of Completed Animation Strip

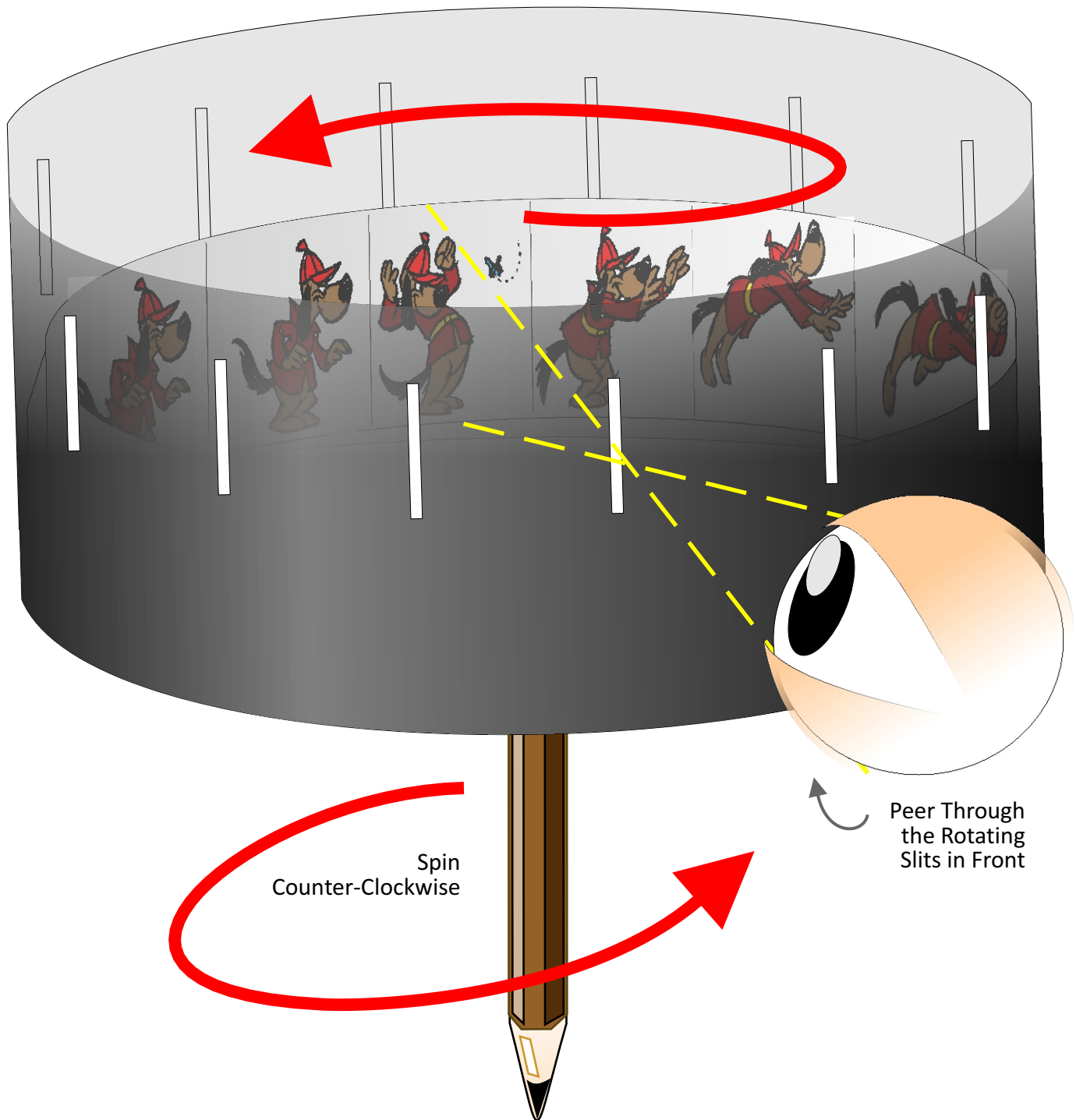


References:

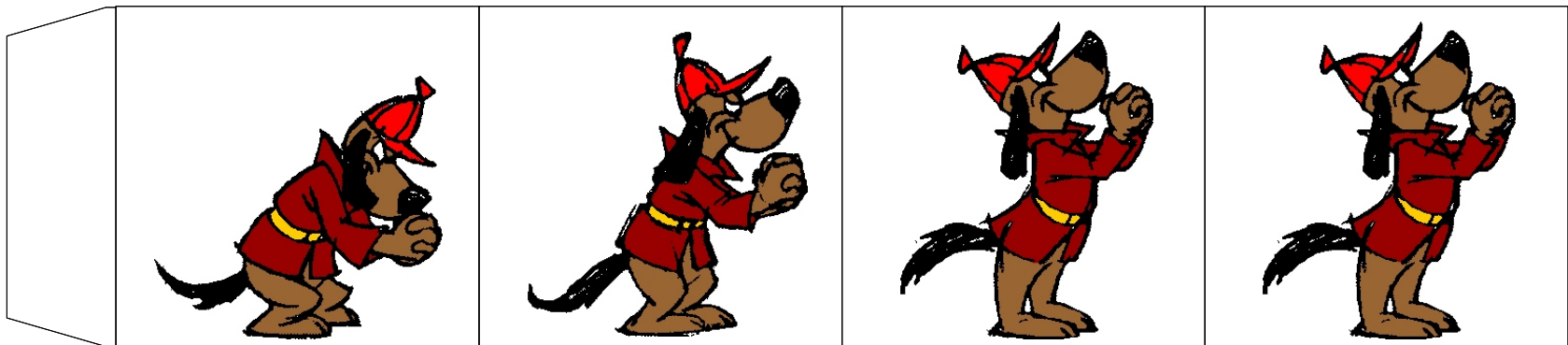
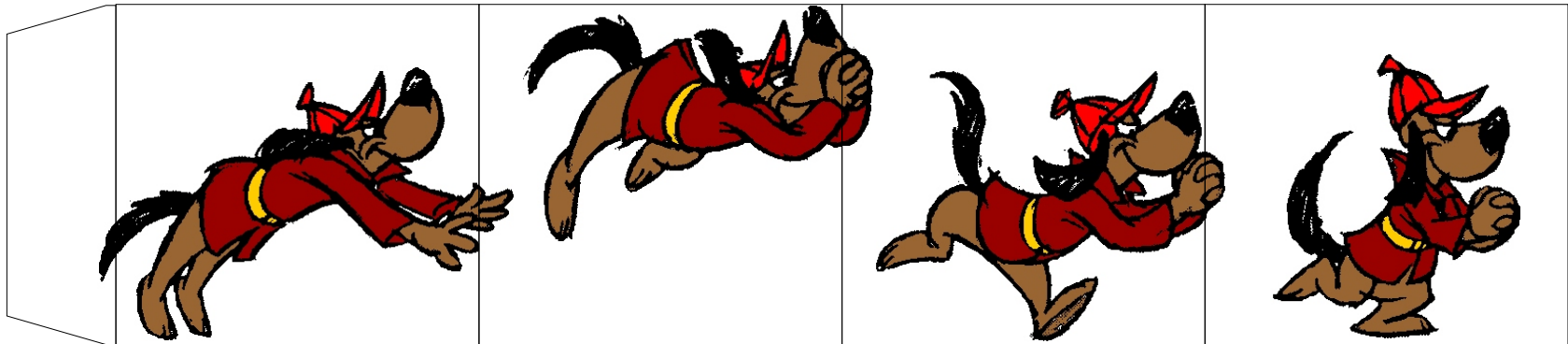
Blair, P. (1988). *Film Cartoons*. Trustin, CA: Walter Foster.

Zoetrope: *Construction*

- 8:** Spin the completed Zoetrope and pencil in the counter-clockwise direction. Peer through the slits in the front of the Zoetrope while watching the frames of the animation strip pass by on the inside-back of the Zoetrope. The effect produces an optical illusion to the eye, creating a series of “moving images” on the back of the device instead of spinning images. Compare the effect with peering just over the top-front of the device to see the real spinning images without the aid of the slits in front. The number of slits is directly relational to the number of animation frames.



Zoetrope Template: *Strip Example 1*

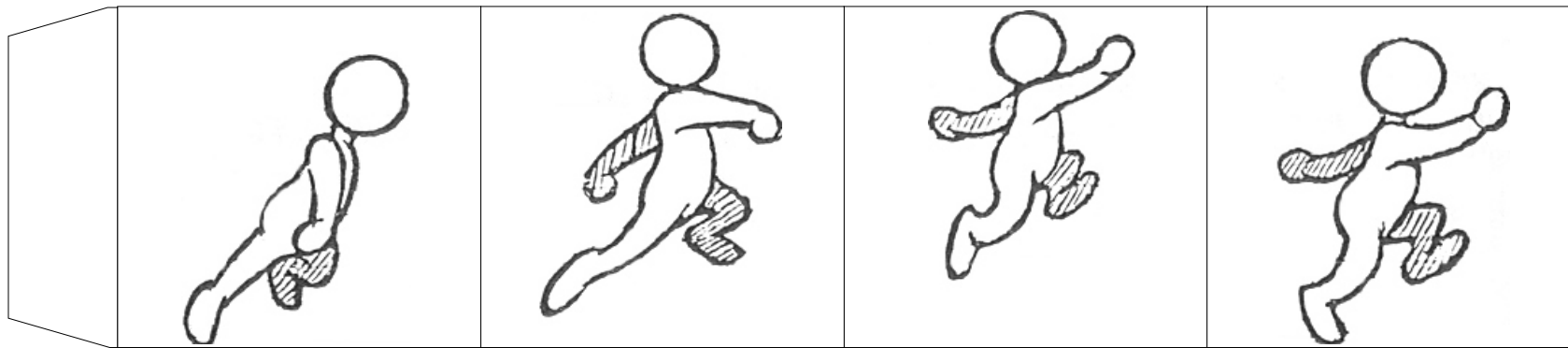
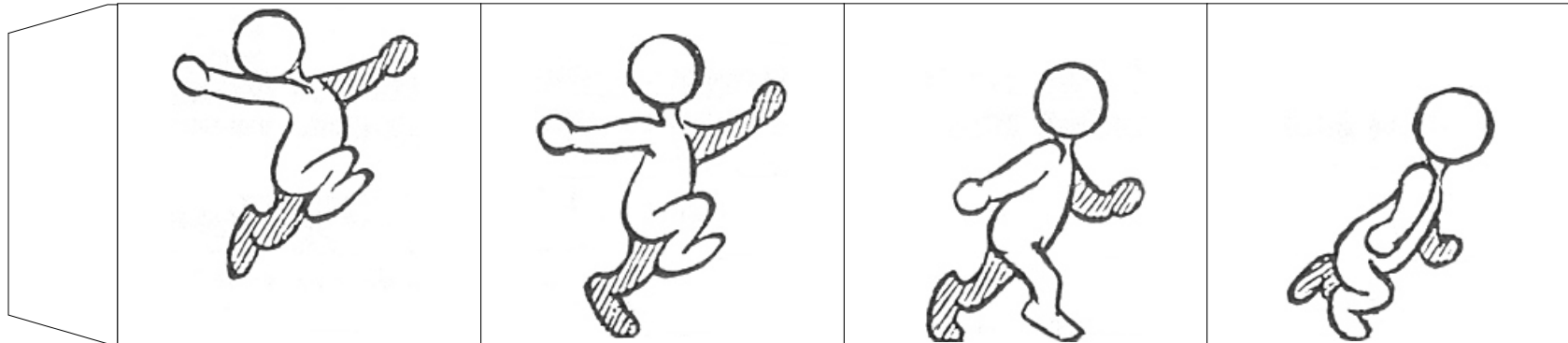
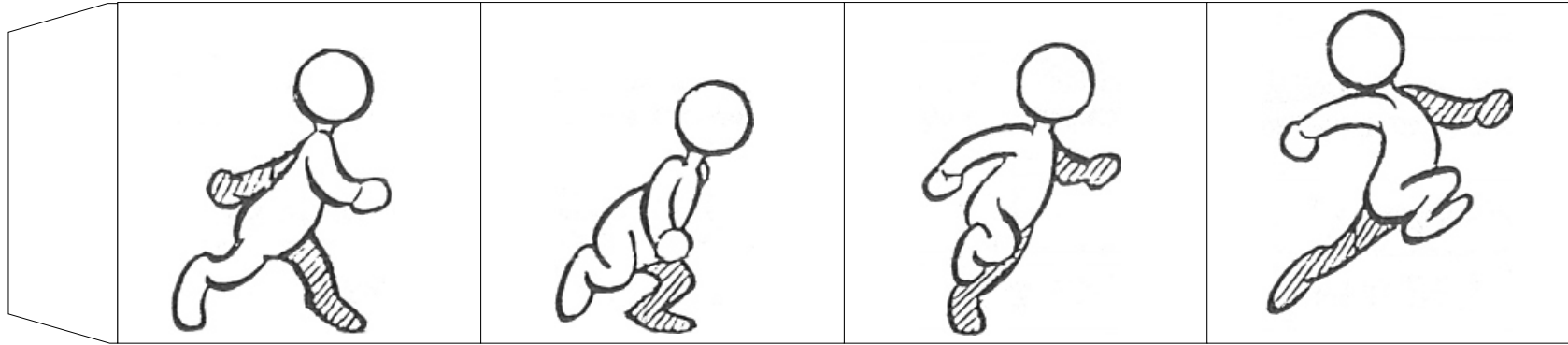


Images recreated (Blair, 1988, p.26)

References:

Blair, P. (1988). *Film Cartoons*. Trustin, CA: Walter Foster.

Zoetrope Template: *Strip Example 2*



Images recreated (Blair, 1988, p.8)

References:

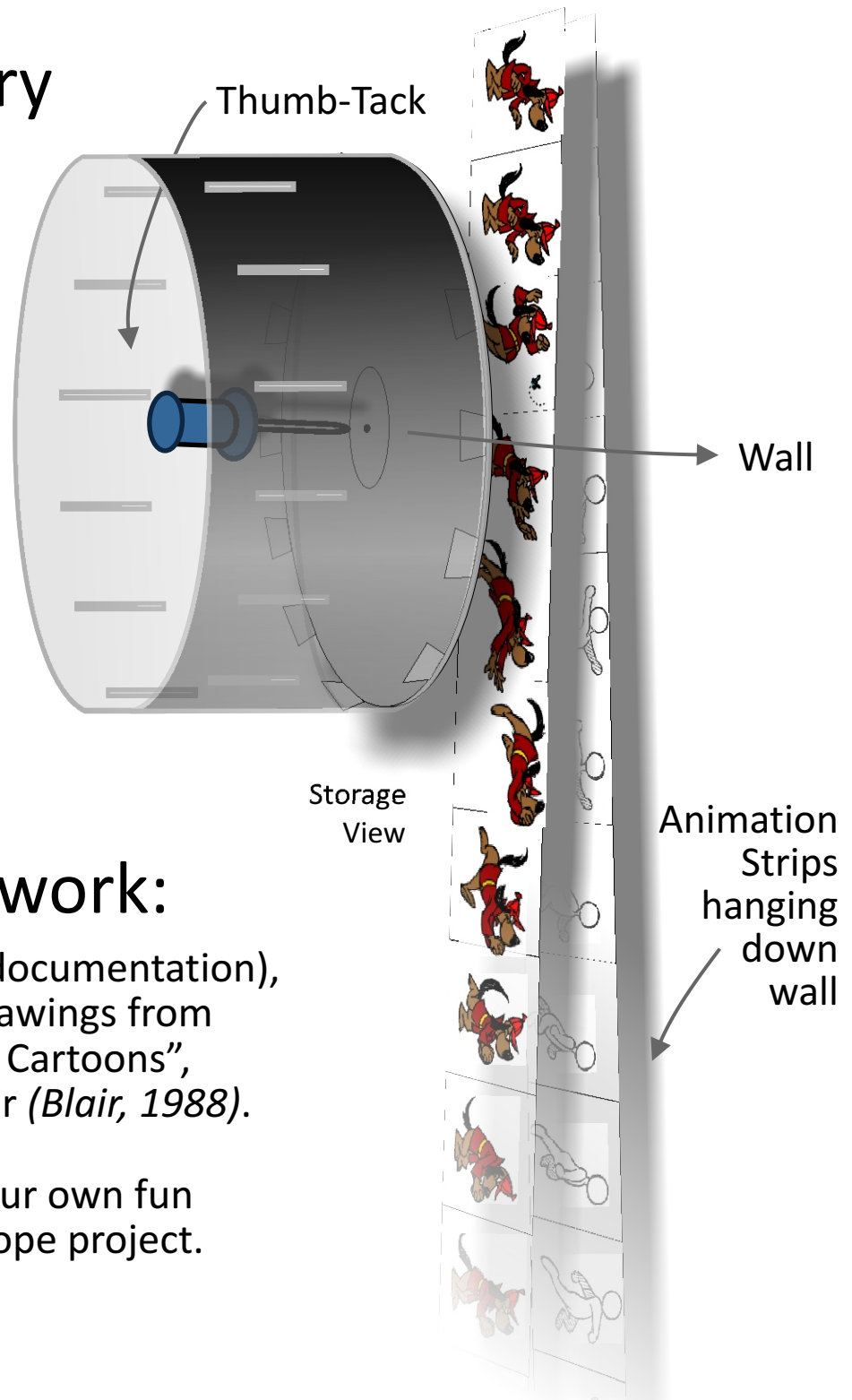
Blair, P. (1988). *Film Cartoons*. Trustin, CA: Walter Foster.

Zoetrope: Project Summary

Storage

This project can be easily stored for protection and handiness.

Simply remove the thumb-tack from the top of the pencil and tack the drum, along with all your animation strips to the wall (or cork-board) for the next day of fun.



Note About Artwork:

For this project (and this documentation), we reproduced sample drawings from Preston Blair's book "Film Cartoons", published by Walter Foster (*Blair, 1988*).

Be creative, and create your own fun animations for your zoetrope project.

Project Intent

This project was built and documented by our family with the hopes and intent that others may be able to use and enjoy the same project.

Please feel free to use, share, and enjoy.

References:

Blair, P. (1988). Film Cartoons. Trustin, CA: Walter Foster.