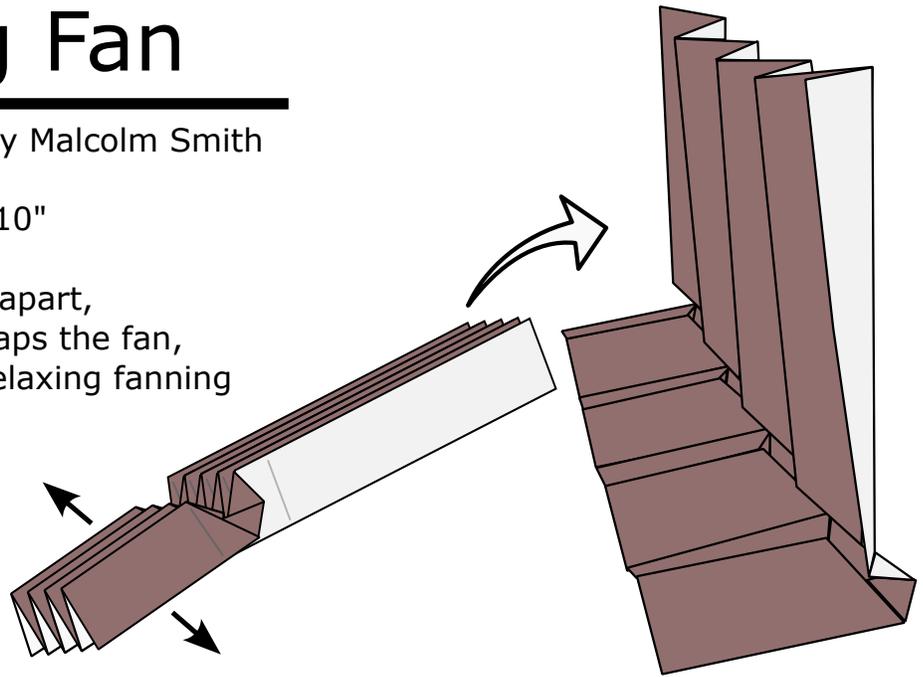


# Self-folding Fan

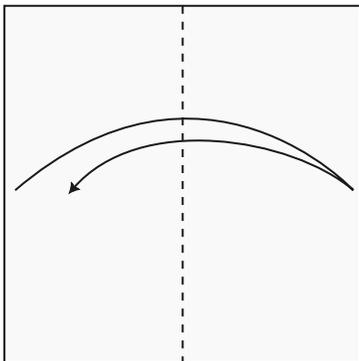
Created and Diagrammed by Malcolm Smith  
Complex

Recommended paper size: 10"

When the pleats are pulled apart, a spring joint mechanism flaps the fan, providing an efficient and relaxing fanning experience.

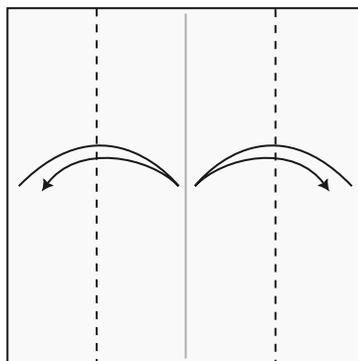


1



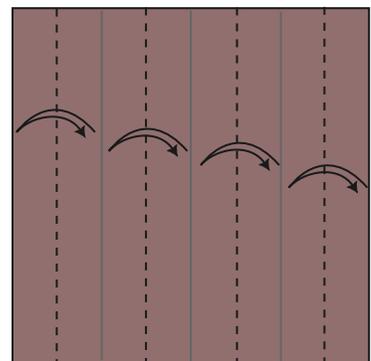
Fold in half and unfold

2



Fold to middle crease and unfold

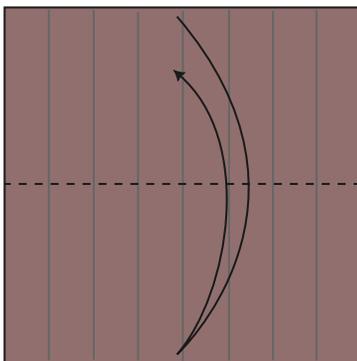
3



Flip paper and divide into eighths, unfold

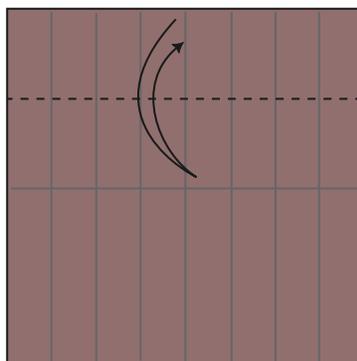


4



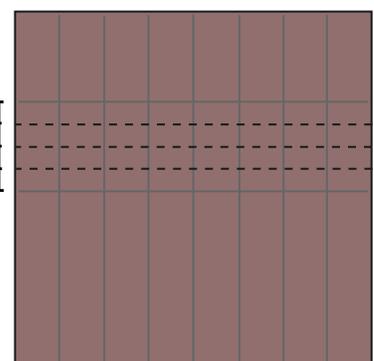
Fold in half and unfold

5

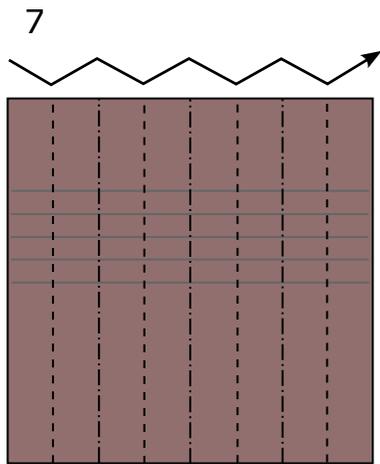


Fold top of the paper to middle crease and unfold

6



Divide top middle segment into fourths and unfold



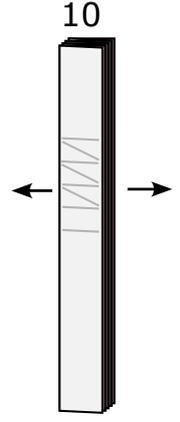
Pleat



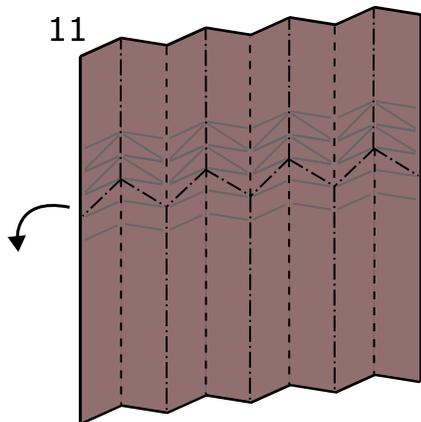
Fold and unfold between the two points, precreasing through all layers



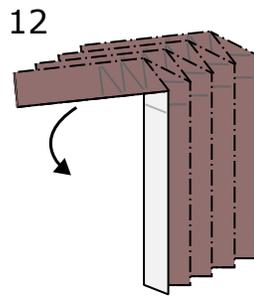
Repeat step 8 on the top sets of folds



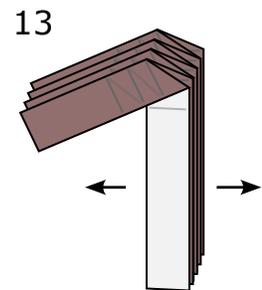
Partially unfold



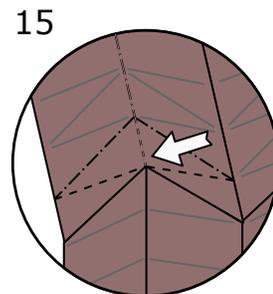
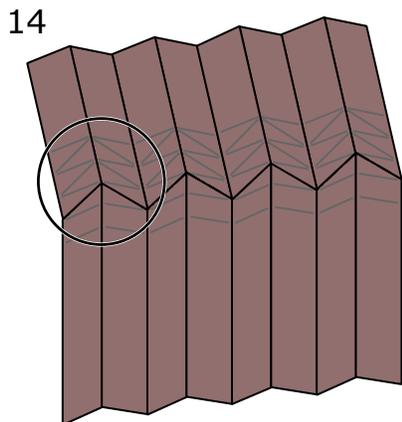
Preform a series of reverse folds through all pleats using the existing folds. The top pleats will be inverted



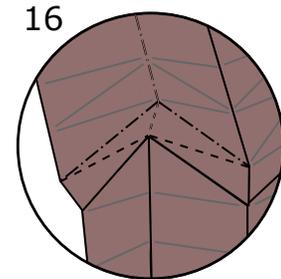
In progress



Partially unfold

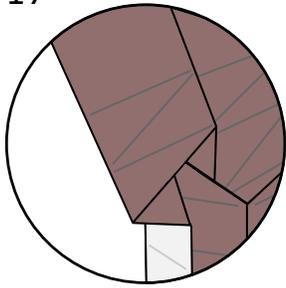


Collapse the leftmost pleat along the given folds. The model will not lie flat



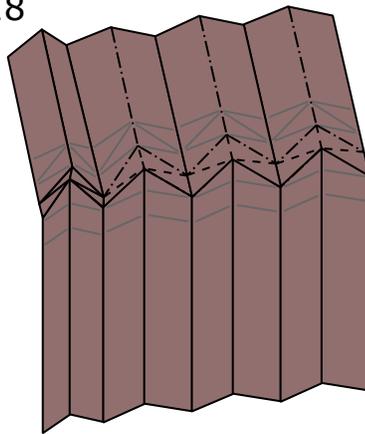
In progress

17



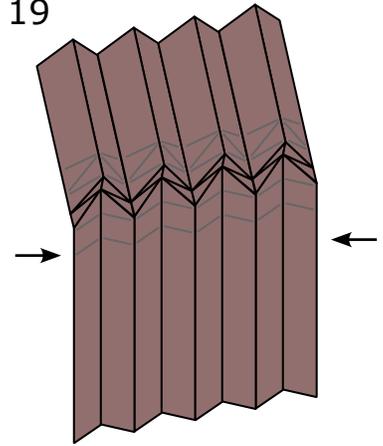
Side view of finished step

18



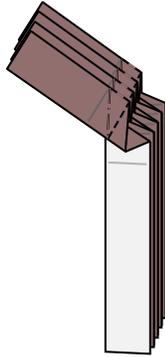
Repeat step 15 on each other pleat

19



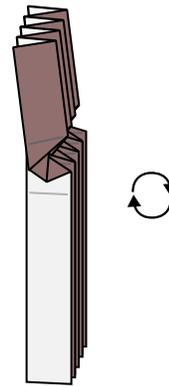
Collapse

20



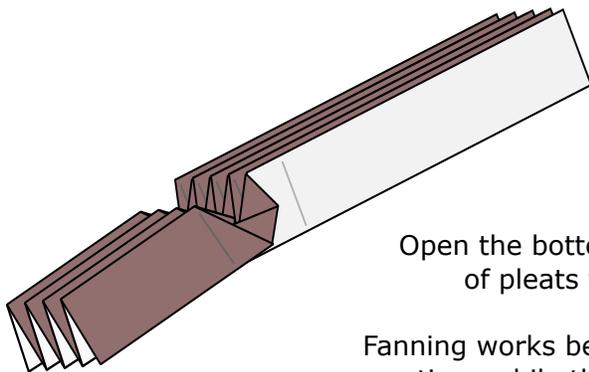
Repeat steps 13-19 on the next set of precreases

21



Turn model around

Finished



Open the bottom section of pleats to fan

Fanning works best with small motions while the pleats are stretched

