# ADVANCED ANIMATION

Preston Blair



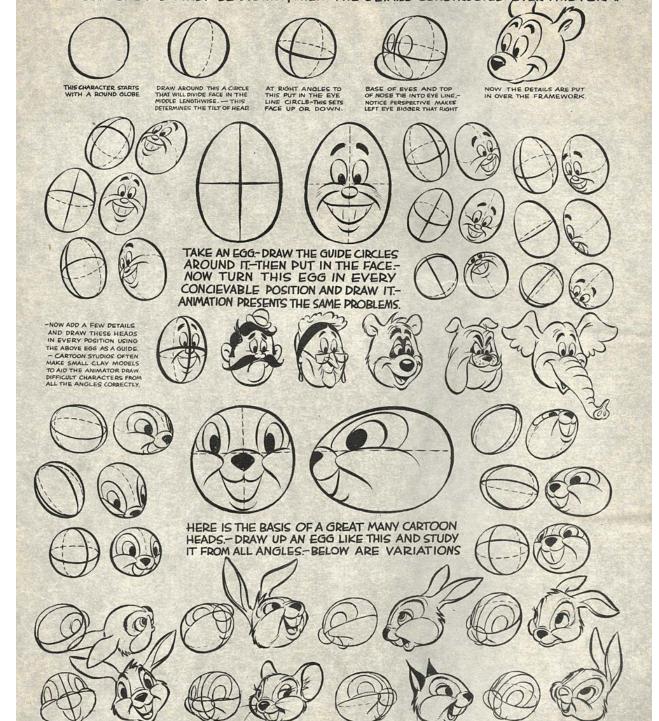


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LEARN HOW TO DRAW ANIMATED CARTOONS

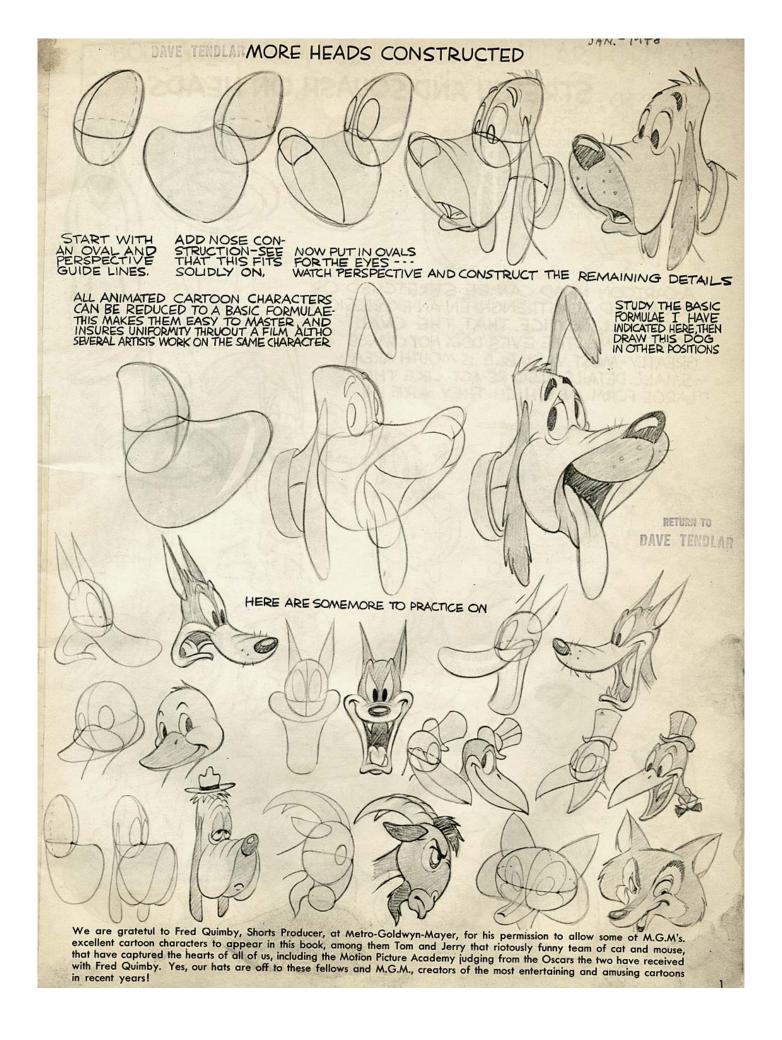
### CONSTRUCTION OF THE HEAD

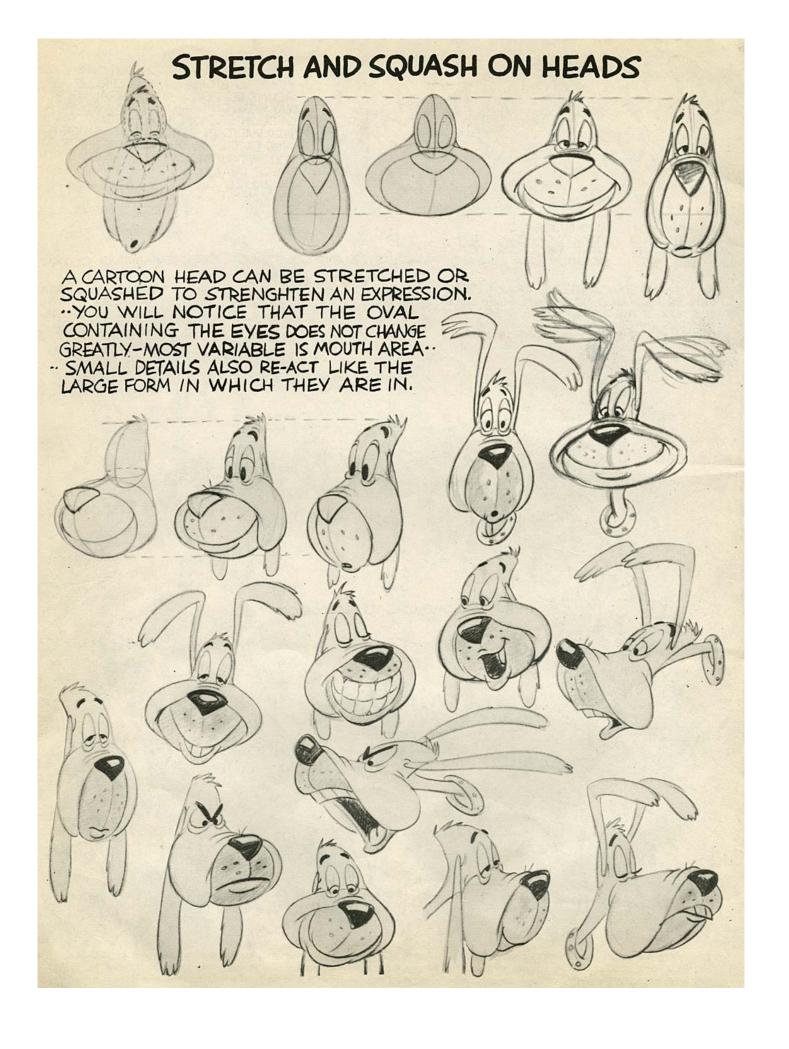
THINK OF THE HEAD AS A ROUNDED MASS, EITHER BALL SHAPED, PEAR SHAPED OR EGG SHAPED AS THE CASE MAY BE. IN ANIMATION THIS HEAD SHAPE MAY CHANGE PEPSPECTIVE AND FORM A GREAT NUMBER OF TIMES DURING A SCENE.—TO SIMPLIFY MATTERS A CORRECT PERSPECTIVE FRAMEWORK SHOULD FIRST BE DRAWN, THEN THE DETAILS CONSTRUCTED OVER THIS FORM.

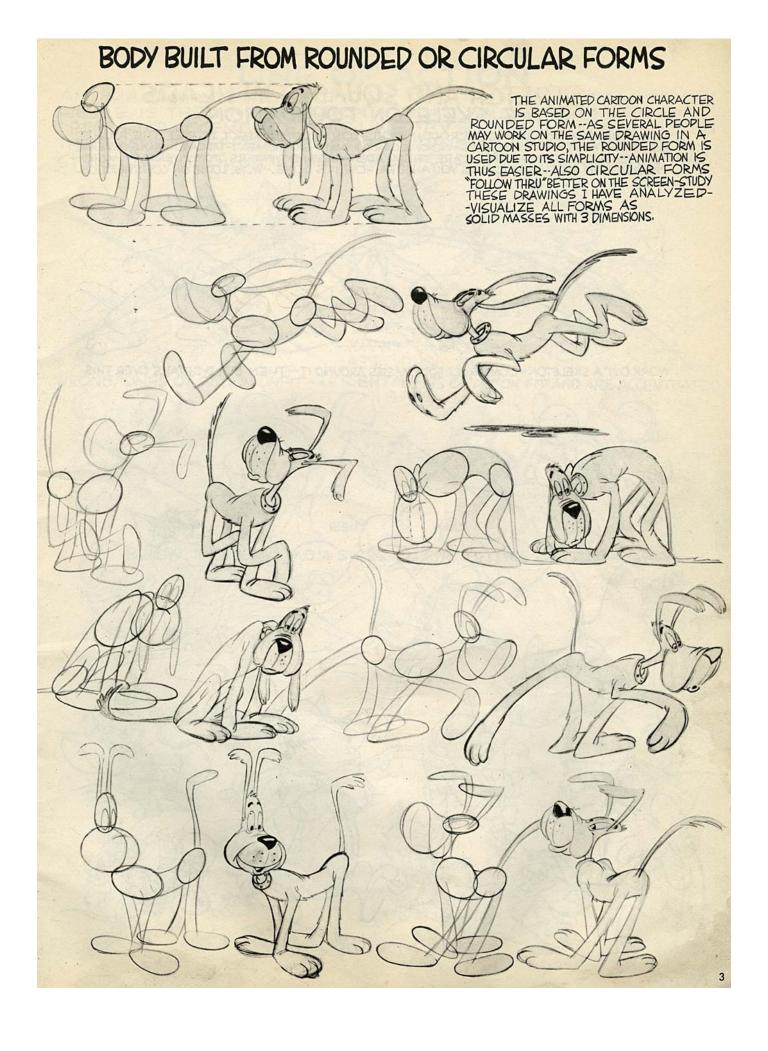


#### A NOTE ABOUT THE AUTHOR

Preston Blair, Cartoon Director, is one of the fine artists of Animation. Associated with the Disney Organization, he animated in "Pinocchio," "Bambi," and "Fantasia," in the later he designed the hippos. Later for Fred Quimby, shorts Producer at Metro-Goldwyn-Mayer, he designed and animated the highly successful, "Red Hot Riding Hood," directed "Barney Bear" shorts, and animated in "Anchors Aweigh." Blair is active in magazine illustration and fine arts, and is a member of the California and American Watercolor Societies. Recenţly when he won first prize in our National Print Exhibition at the Laguna Beach Art Gallery, I met him and suggested he make this book for you. I am sure it will prove interesting and helpful to all those studying this popular cartoon medium.

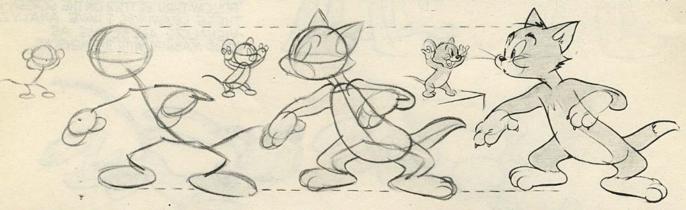




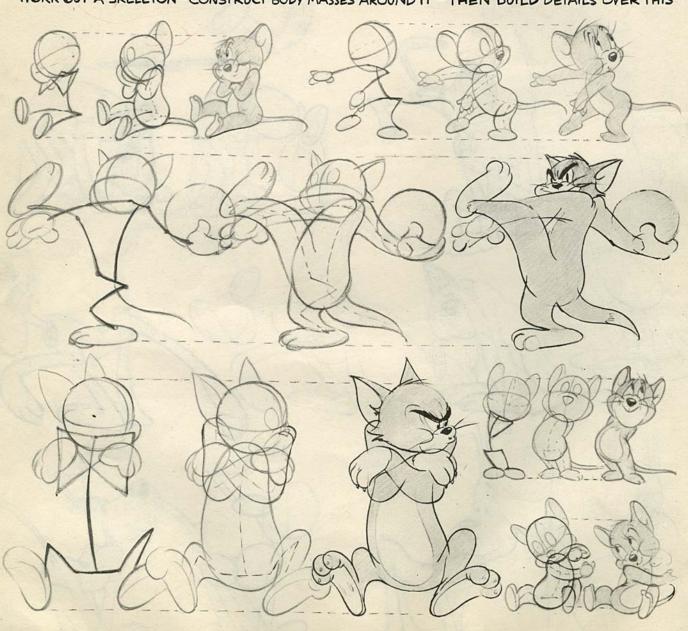


#### THE SKELETON FOUNDATION

BUILD THE CARTOON UP FROM A ROUGH SKELETON -- DON'T EXPECT TO GET THE RIGHT SKELETON THE FIRST TRY ALWAYS -- NO ONE CAN DO THAT -- EXPERIMENT-DISCARD-MAKE SEVERAL THEN PICK THE BEST ONE -- HERE ARE THE ACADEMY AWARD WINNERS "TOM+JERRY" (WHO APPEAR IN M.GM. PICTURES) TO GIVE YOU AN IDEA HOW IT'S DONE, -- WORK LOOSE ON CONSTRUCTION.

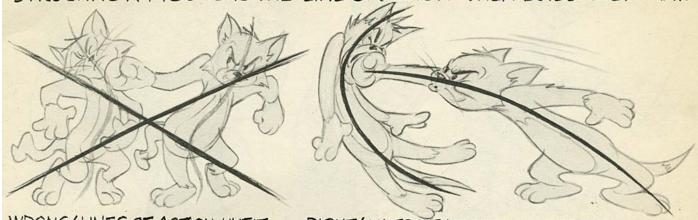


WORK OUT A SKELETON-CONSTRUCT BODY MASSES AROUND IT -THEN BUILD DETAILS OVER THIS

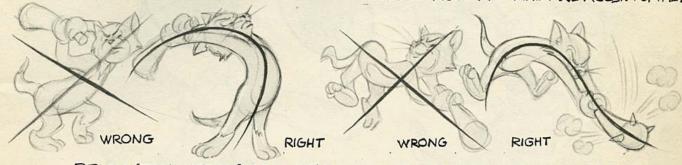




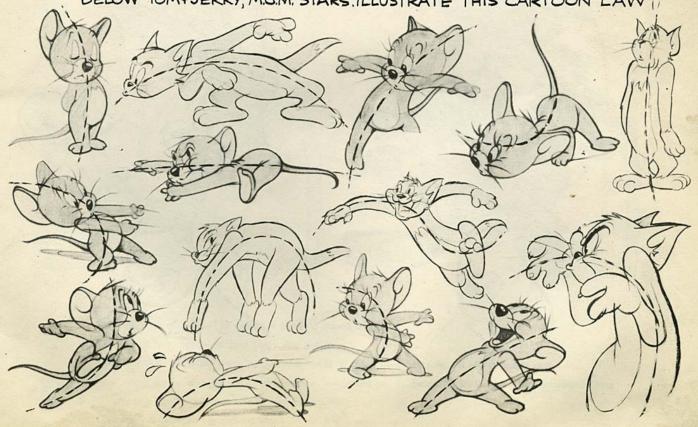
AN IMAGINARY LINE EXTENDING THRU THE MAIN ACTION OF THE FIGURE IS THE LINE OF ACTION -- PLAN YOUR FIGURE AND IT'S DETAILS TO ACCENTUATE THIS LINE -- BY SO DOING YOU STRENGHTEN THE DRAMATIC EFFECT -- THE FIRST THING TO DRAW WHEN CONSTRUCTING A FIGURE IS THE LINE OF ACTION -- THEN BUILD OVER THAT.

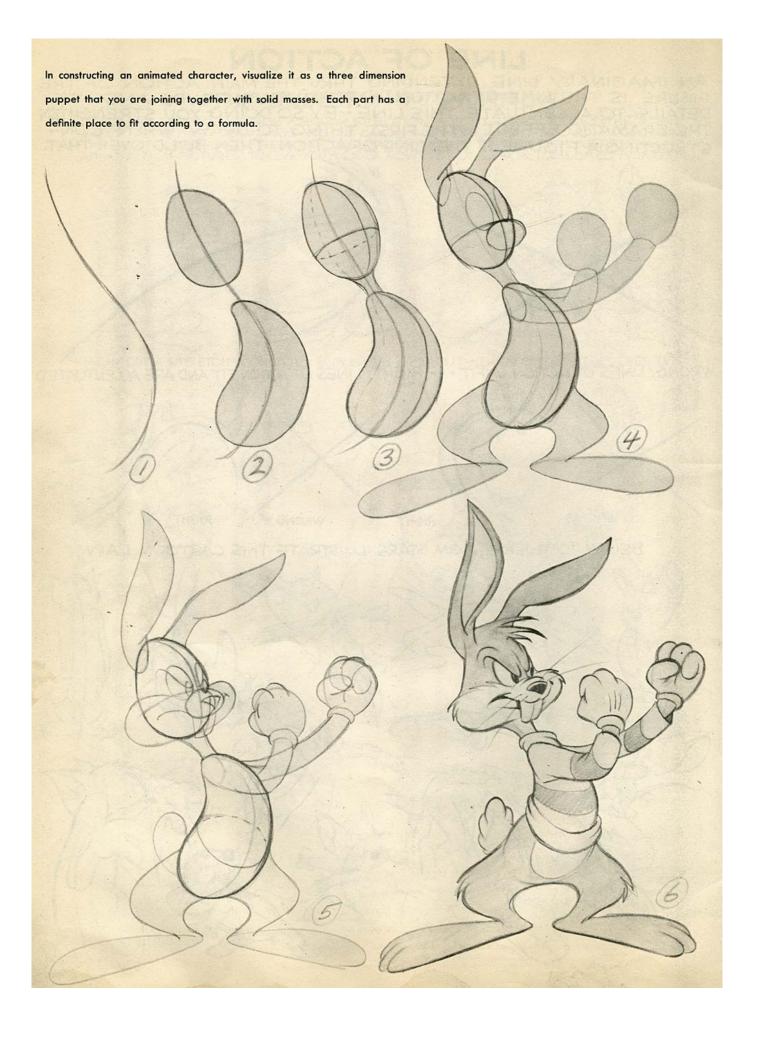


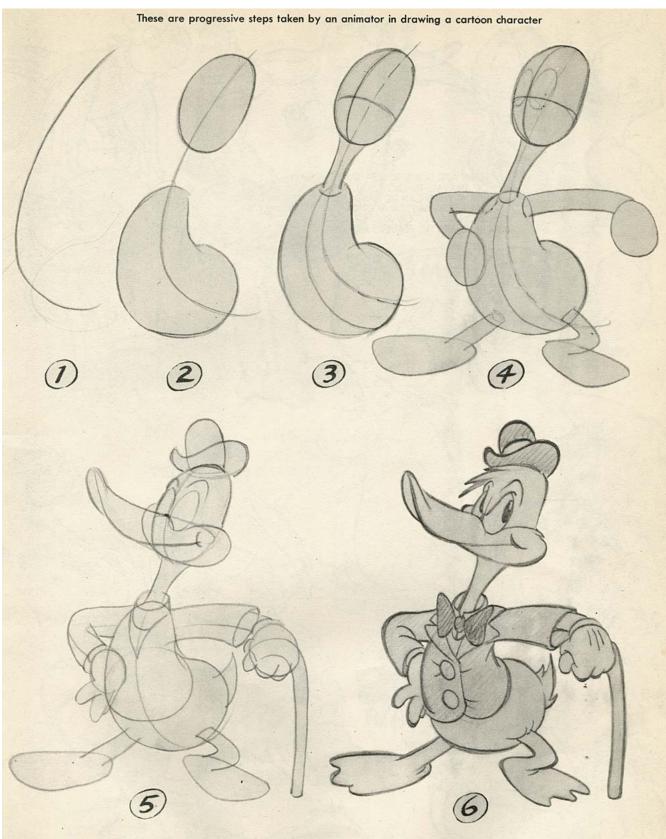
WRONG! LINES OF ACTION UNFIT - - - RIGHT! LINES OF ACTION FIT AND ARE ACCENTUATED



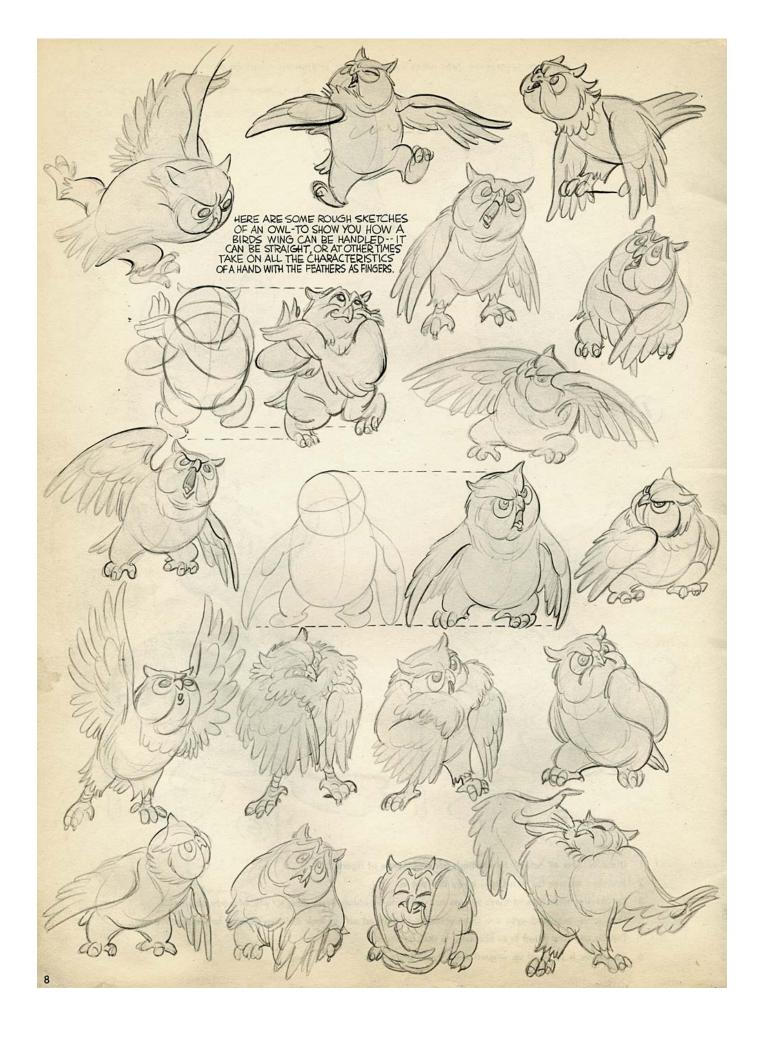
BELOW TOM+JERRY, M.G.M. STARS. ILLUSTRATE THIS CARTOON LAW !

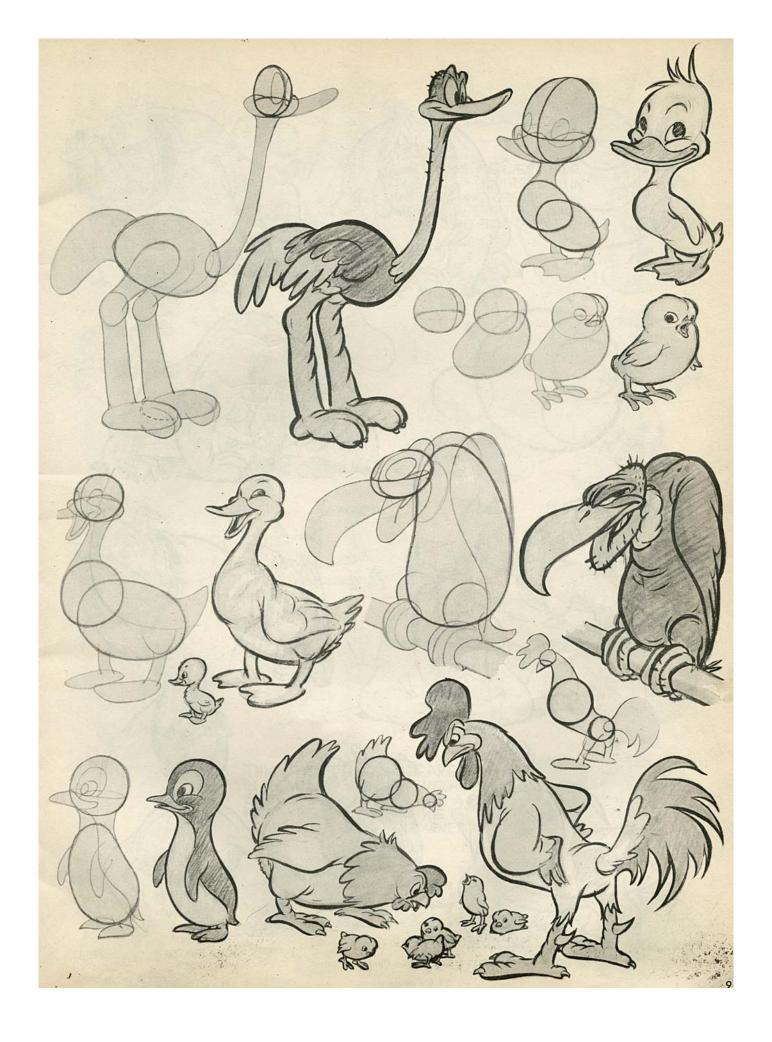


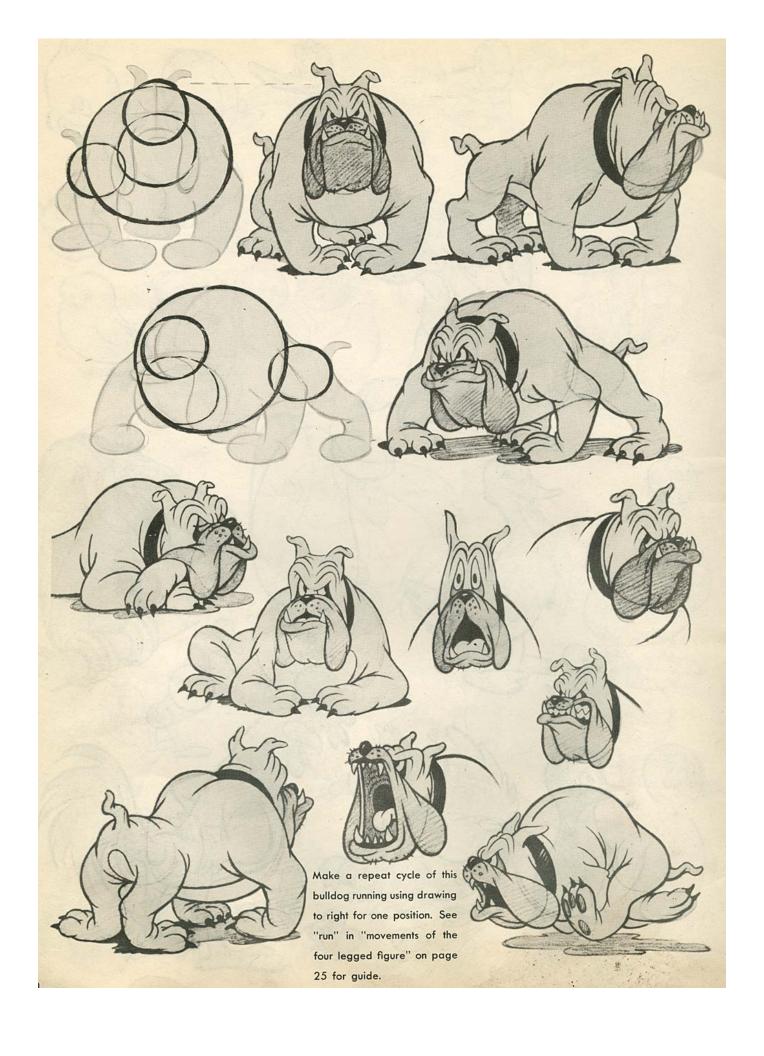


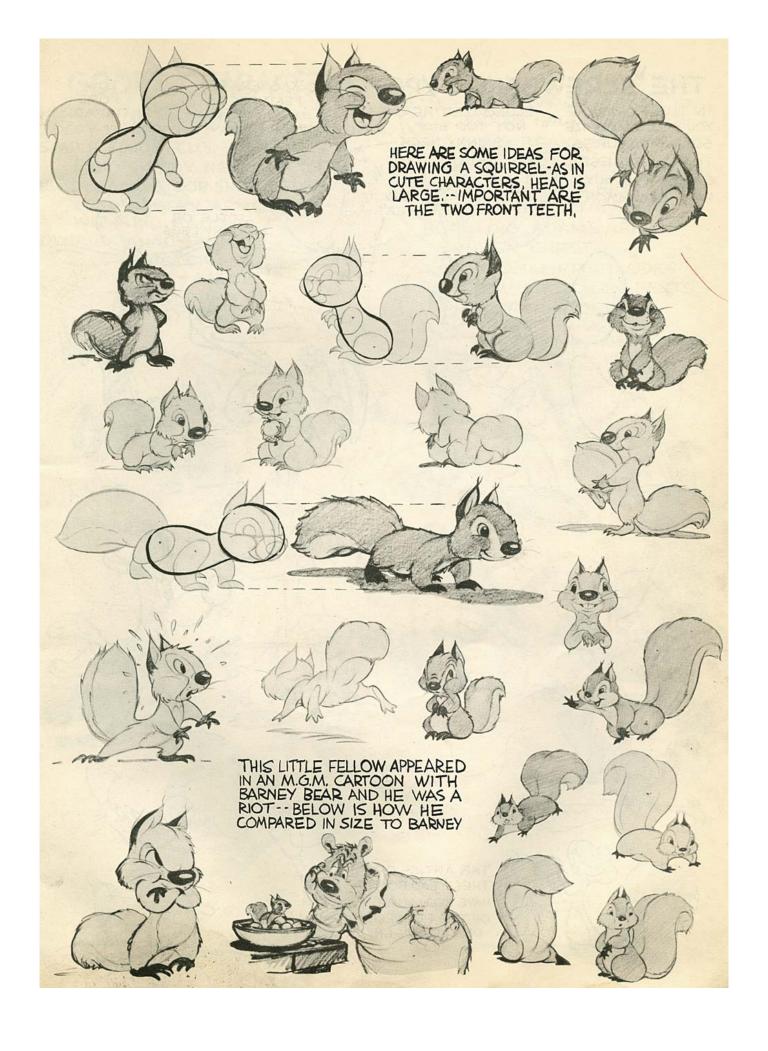


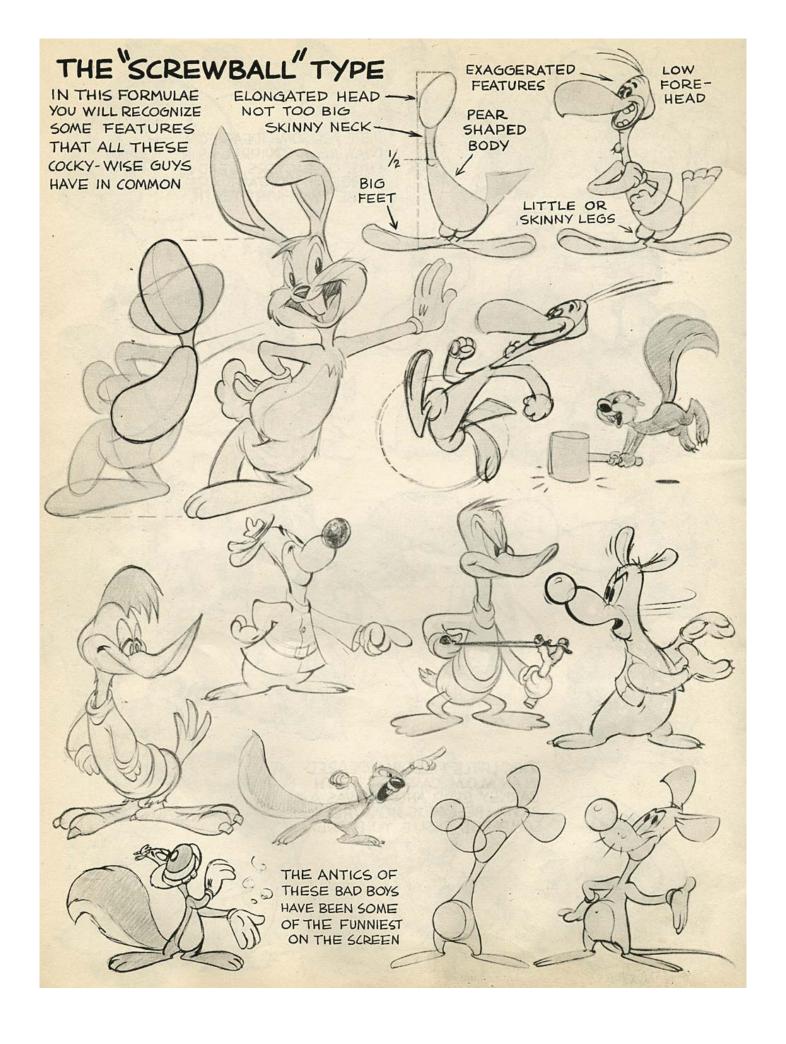
- 1 Draw in "Line of Action" to establish general stance of figure.
- 2 Rounded masses for head and body are put in.
- 3 Perspective lines around these masses are put in to establish front, side, tilt etc. of body and head.
- 4 Now arms, legs and eyes are constructed or "anchored on" in their definite position to perspective lines.
- 5 Details are now fitted in or hinged into their position.
- 6 Character is cleaned up around these construction lines.

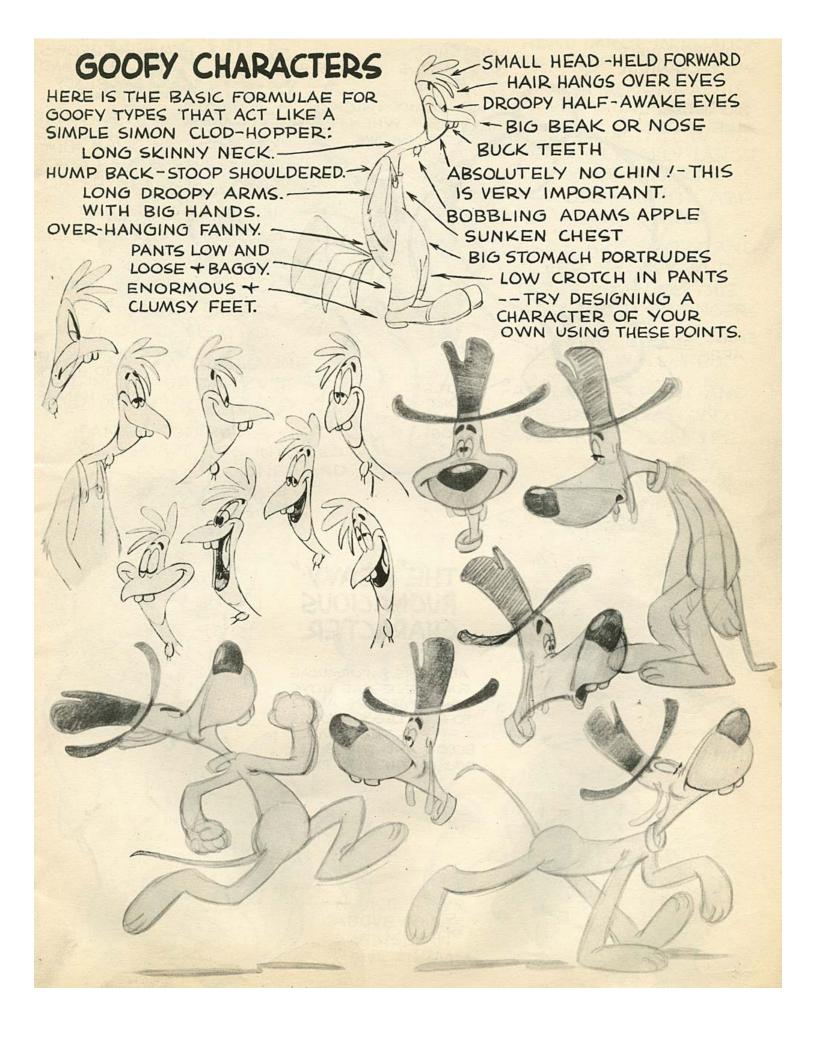


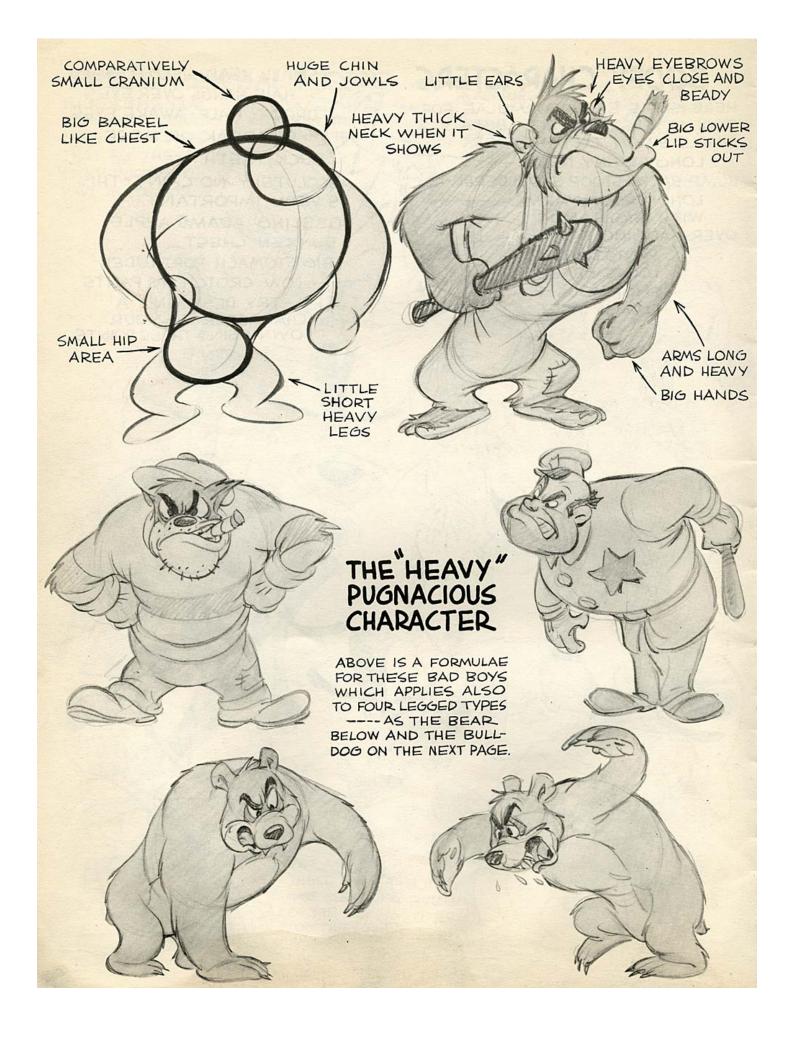














CUTENESS IS BASED ON THE BASIC PROPORTIONS OF A BABY + EXPRESSIONS OF SHYNESS OR COYNESS.

EARS ARE SMALL IN RELATION TO ADULT SIZE.

NO NECK-HEAD JOINS ON TO BODY DIRECTLY.

> BODY PEAR SHAPED AND ELONGATED.

SWAY BACK-WITH THIS LINE CONTINUING UP BACK OF HEAD AND DOWN INTO FANNY.

FANNY PORTRUDES - NEVER BULGES-BUT FITS INTO LEG

HEAD LARGE IN RELATION TO THE BODY.

HIGH FOREHEAD IS VERY IMPORTANT.

EYES SPACED LOW ON HEAD & USUALLY LARGE AND WIDE APART.

-NOSE + MOUTH ARE ALWAYS SMALL.

ARMS ARE SHORT AND NEVER SKINNY AND TAPER DOWN TO THE HAND AND TINY FINGERS

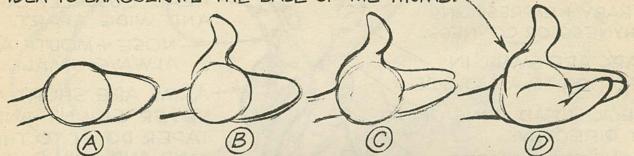
TUMMY BULGES -LOOKS WELL-FED.

FAT LEGS - SHORT AND TAPERING DOWN INTO SMALL FEET FOR TYPE.

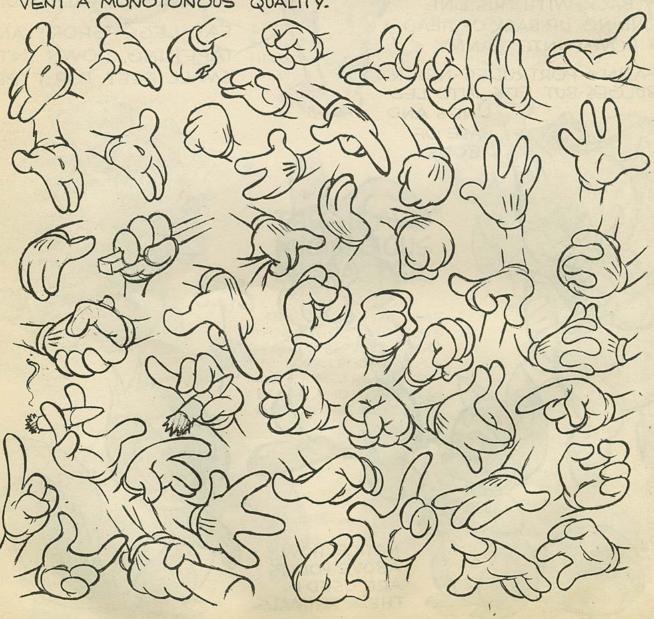


# HANDS

TO DRAW THE HAND FIRST START AS IF IT WERE A MITTEN A AND (B) — THEN PUT THE TWO MIDDLE FINGERS IN FOLLOWING THIS SHAPE () — THE LITTLE FINGER IS THEN PUT IN, VARYING IT IN ANY FASHION TO PREVENT MONOTONY (D) — IT IS OFTEN A GOOD IDEA TO EXAGGERATE THE BASE OF THE THUMB.

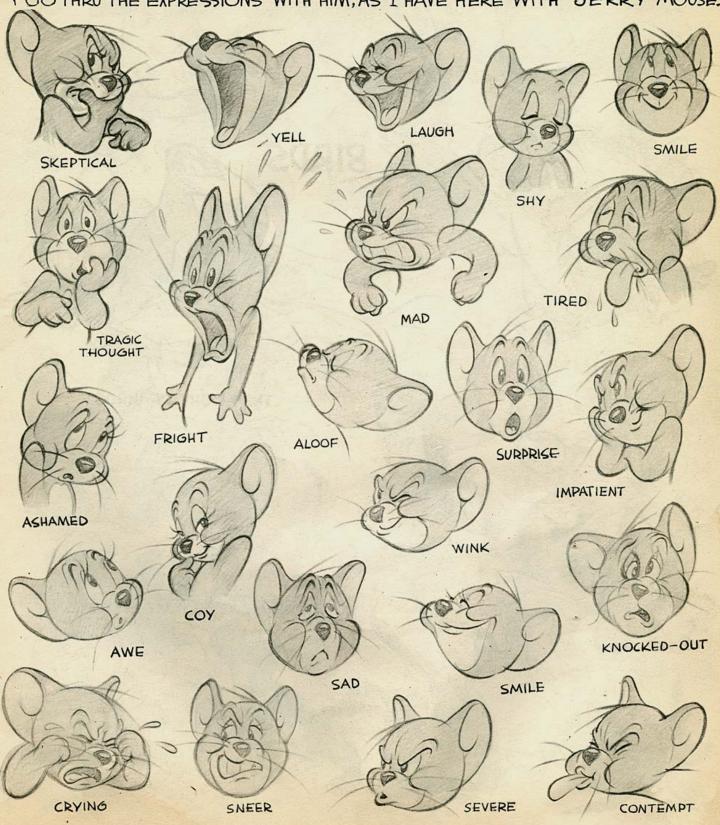


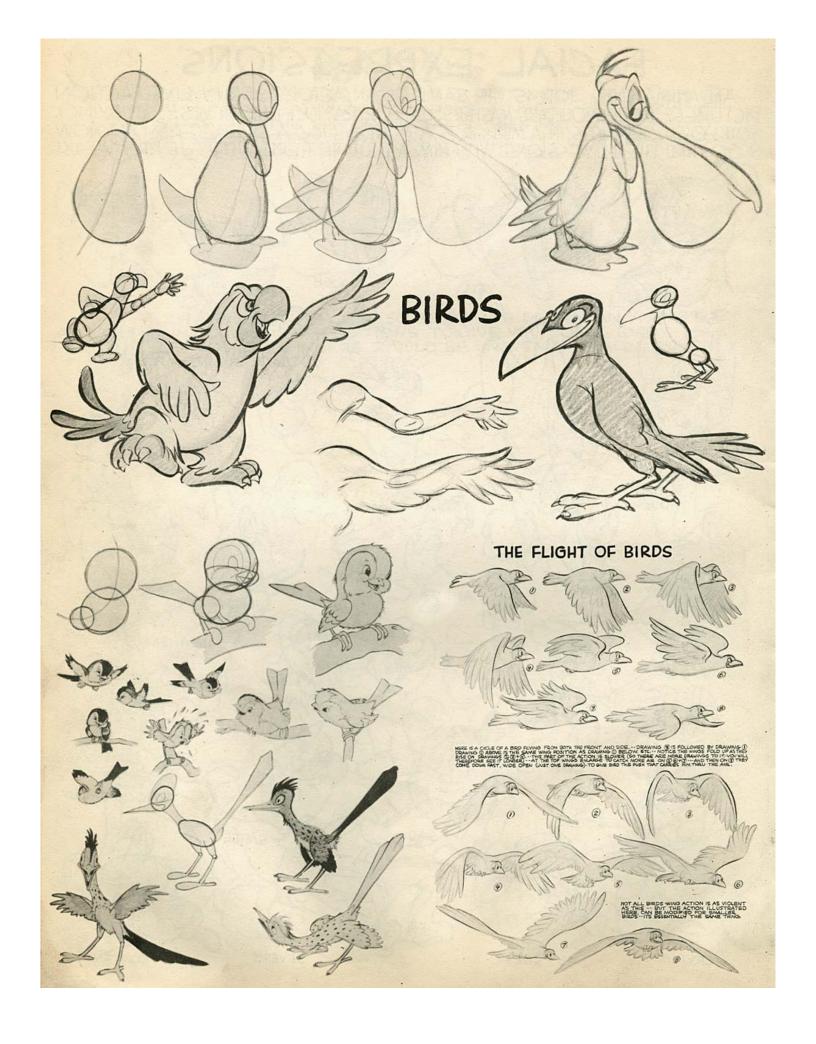
CARTOON HANDS ARE TRICKY - SO BELOW I'VE DRAWN AN AVERAGE HAND IN ALLIKINDS OF POSITIONS TO GIVE YOU SOME IDEAS. — NOTICE THAT THE FINGERS SHOULD BE UNEVENLY PLACED TO PREVENT A MONOTONOUS QUALITY.

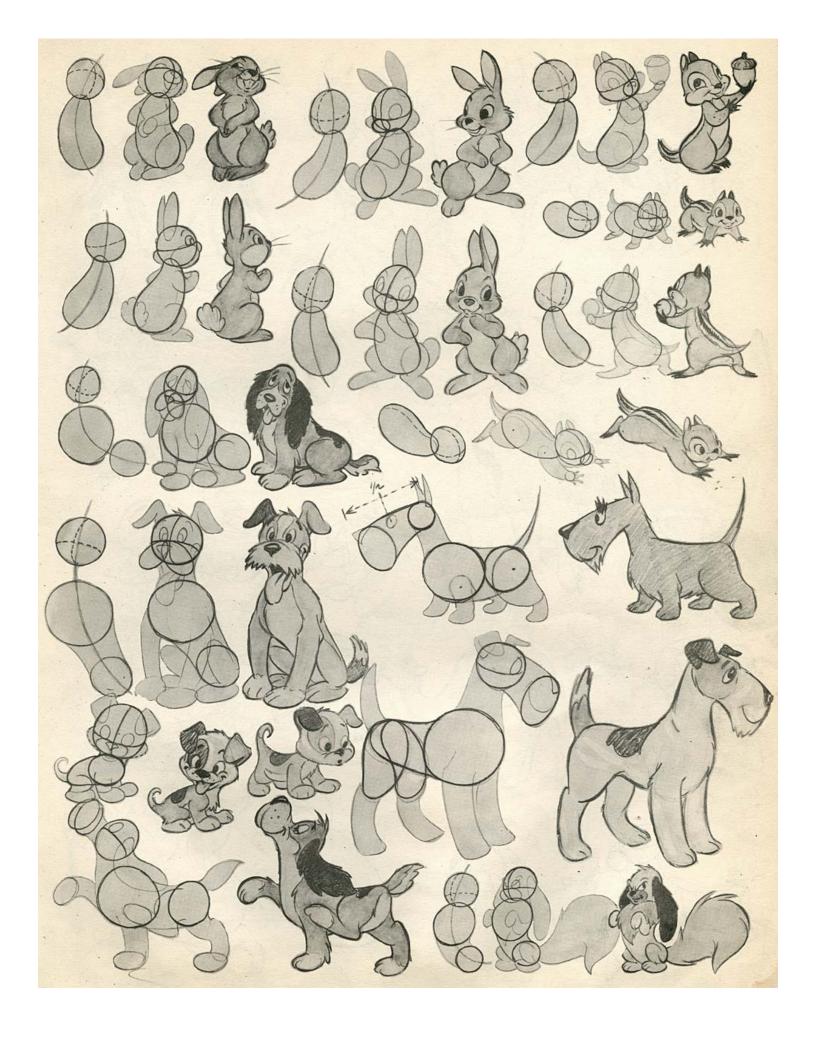


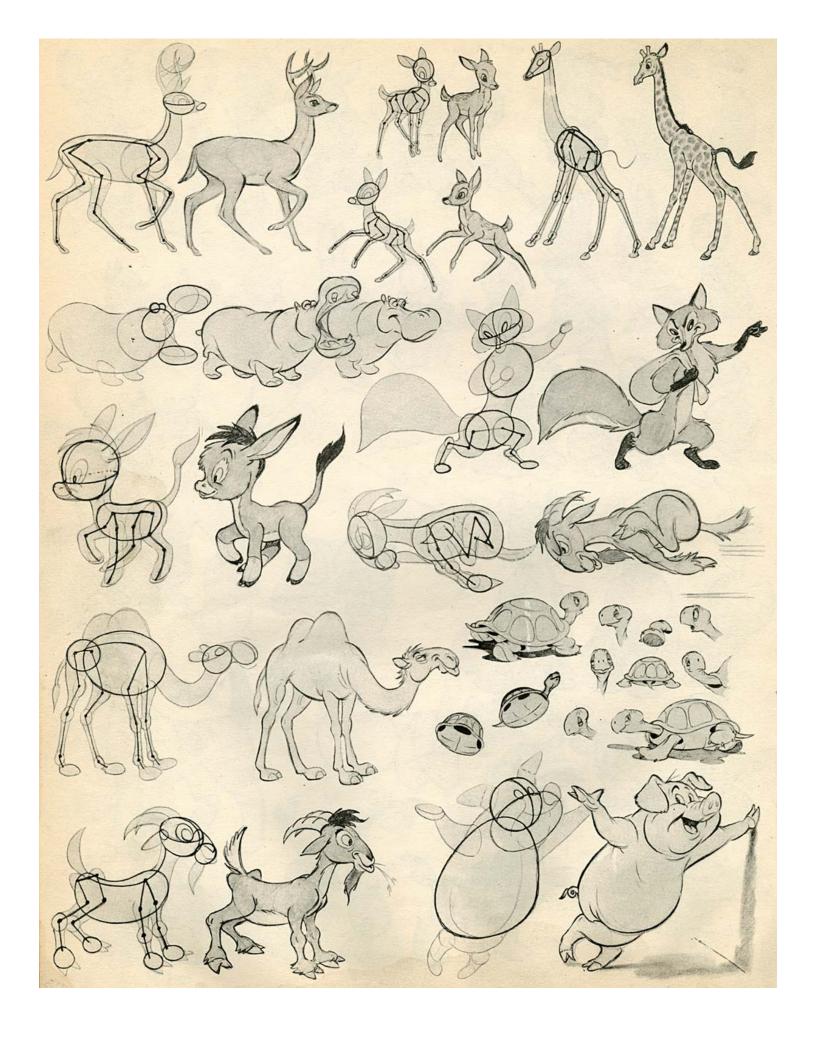
# FACIAL EXPRESSIONS

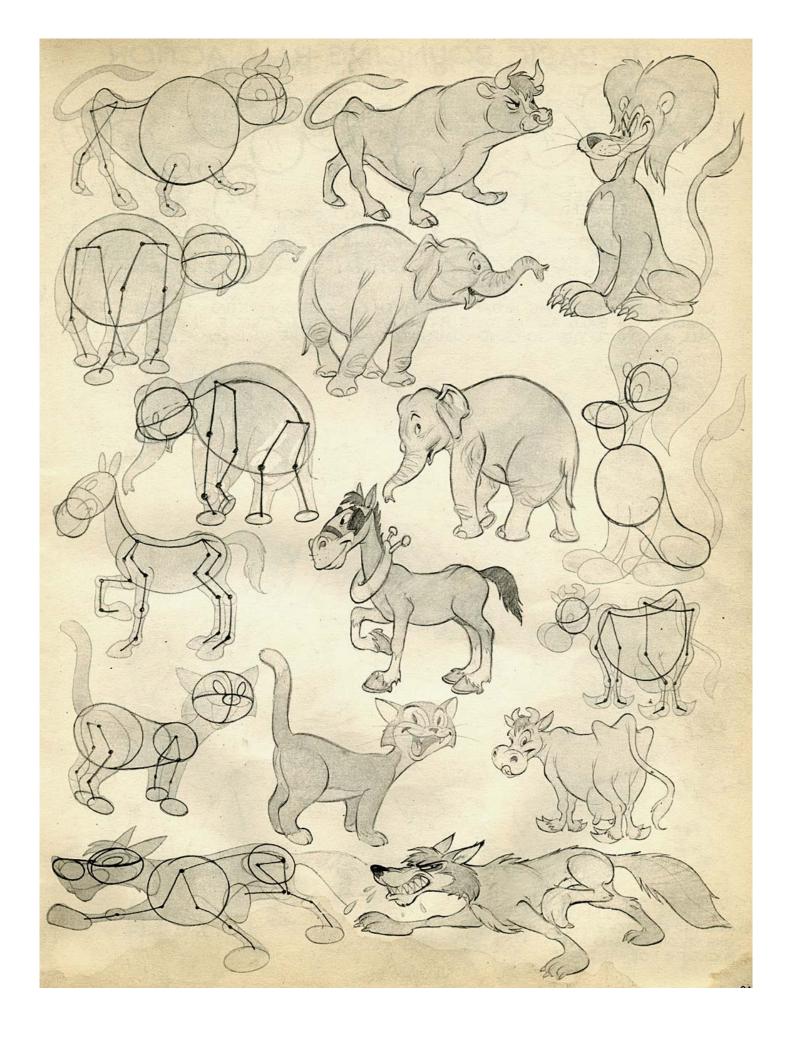
AN ANIMATOR'S JOB IS THE SAME AS AN ACTOR'S JOB IN LIVE ACTION PICTURES:-BOTH SHOULD BE MASTERS OF PORTRAYING EMOTIONS:--STUDYING YOUR OWN GRIMACES IN A MIRROR IS A MUST:--PICK A CHARACTER YOU KNOW + GO THRU THE EXPRESSIONS WITH HIM, AS I HAVE HERE WITH "JERRY" MOUSE.



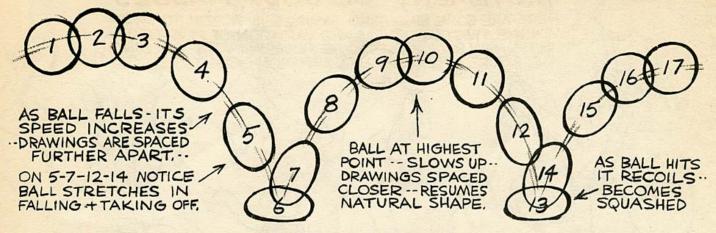




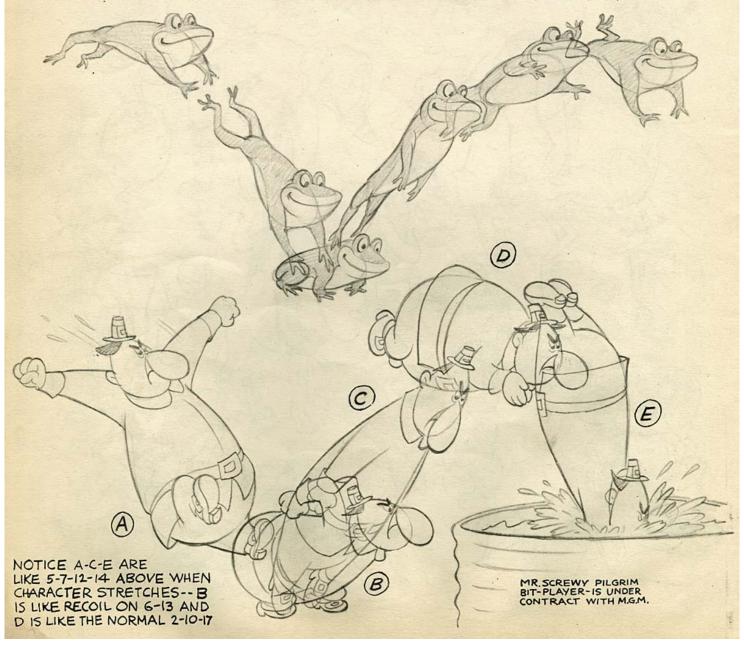


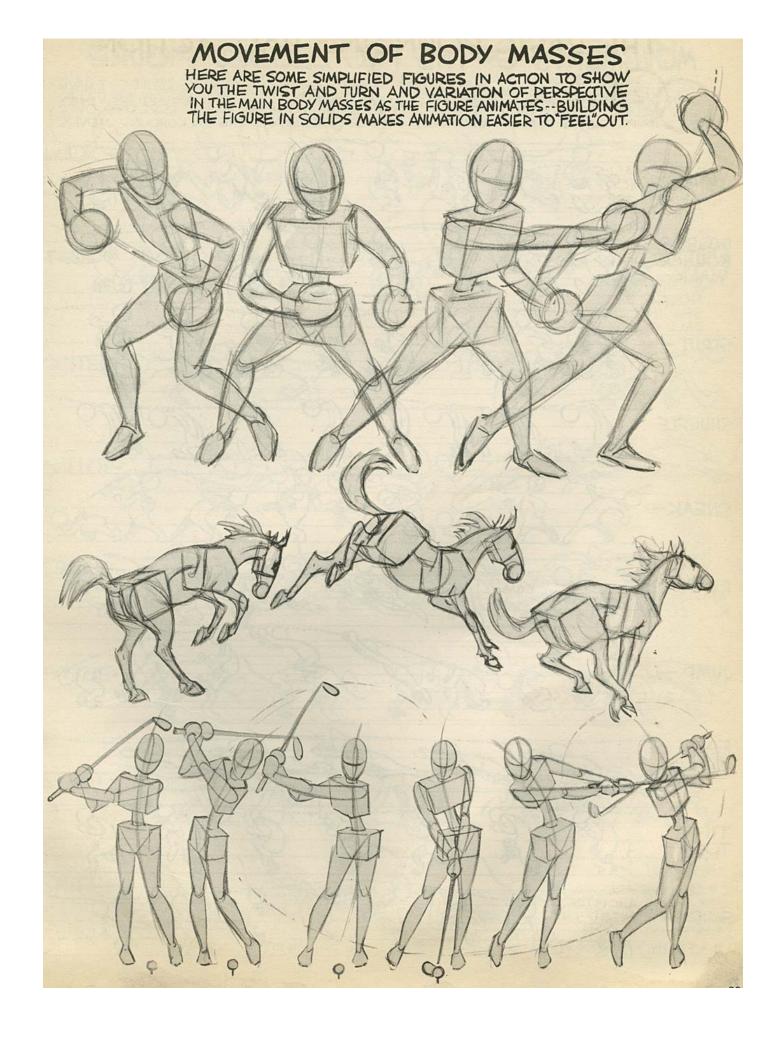


## THE BASIC BOUNCING BALL ACTION



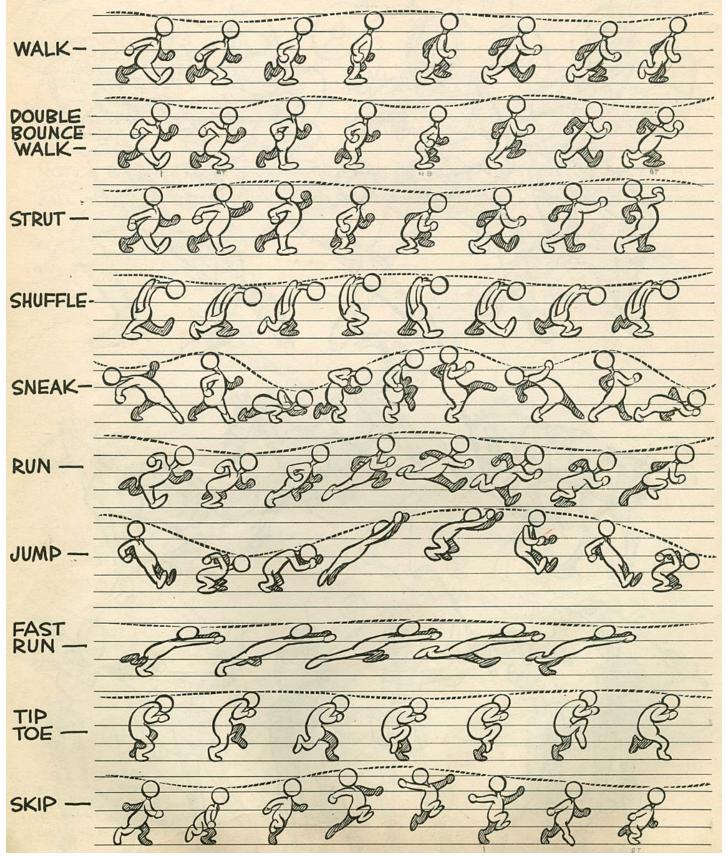
NOTICE BALL FOLLOWS A DEFINITE PATH OF ACTION -- STUDY CLOSELY THE SPACING OF BALL ALONG THIS PATH -- NOTICE THE BASIC SIMILARITY OF THIS BALL ACTION TO THE HOP AND JUMP BELOW; ALSO TO THE WALK-RUN-LEAP-SKIP-ETC.



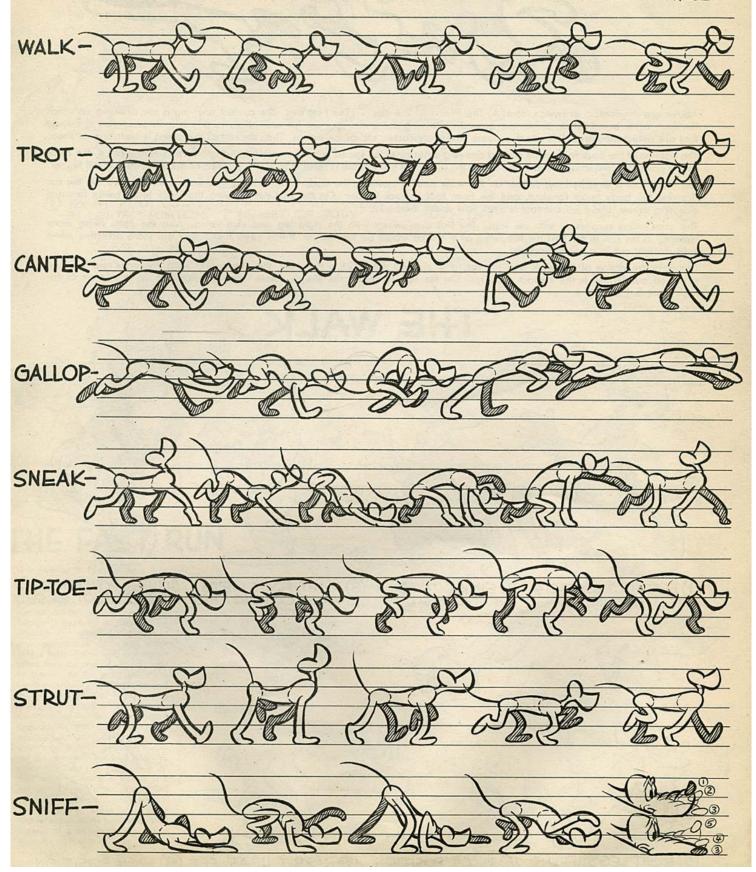


## MOVEMENTS OF THE TWO LEGGED FIGURE

HERE IS A COMPARISON OF THE VARIOUS TWO LEGGED FORWARD MOVEMENT CYCLES -- I HAVE DRAWN ONE-HALF OF EACH CYCLE BELOW--REVERSE HANDS +FEET FOR THE OTHER HALF.--THESE CYCLES CAN BE USED AS "REPEATS"-(THAT IS THE DRAWINGS MAY BE REPEATED OVER +OVER IF THE FIGURE REMAINS CENTERED ON THE SCREEN AND THE BACKGROUND MOVES.



# MOVEMENTS OF THE FOUR LEGGED FIGURE



# DIFFERENCE BETWEEN WALK + RUN



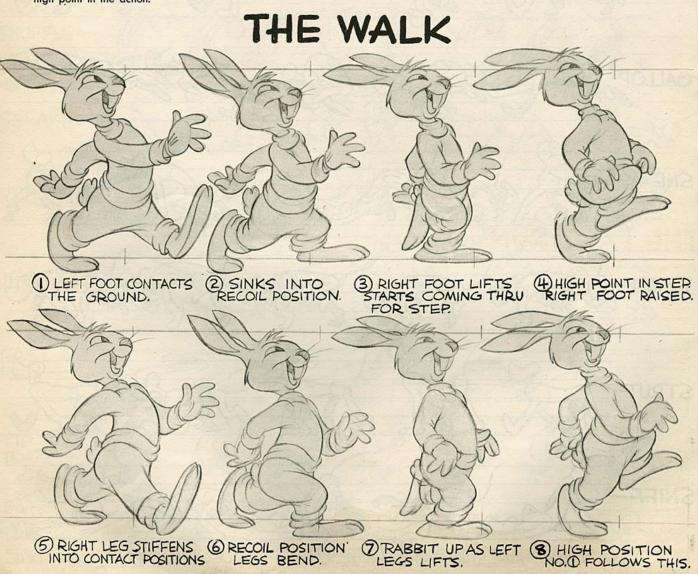
Above are the contact drawings from A The Walk B The Run C The Fast Run. The contact drawing is the drawing on which the foot, after being lifted, strikes the ground. In laying out a run or walk for animation, usually it is these contact drawings that are determined first. This sets the speed, size of character, etc. of the action. Then the rest of the action is built around them.

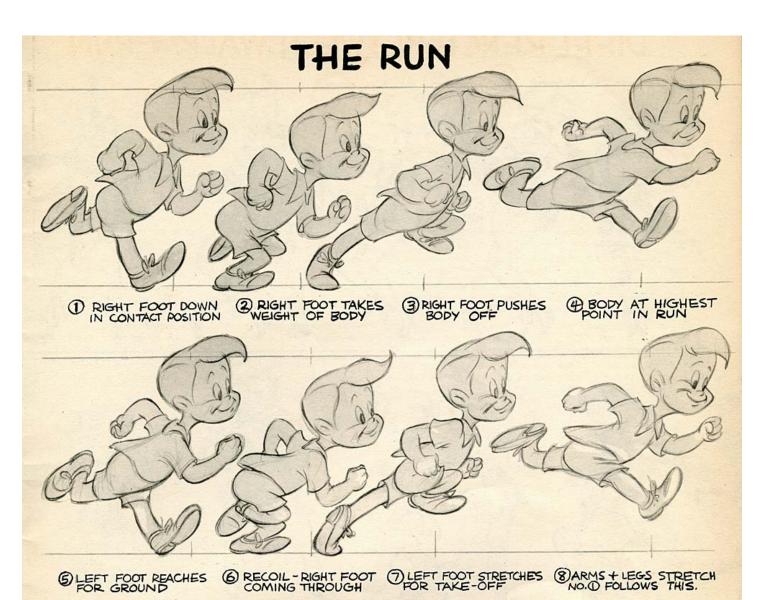
The position of the back foot on the contact drawing determines the speed more than any other single factor. Notice on (A) the back foot is down still contacting the ground. On (B) the back foot has left the ground. On (C) the position of the back foot is still higher.

The front foot is stretched out further on the walk contact position, the body is more upright, denoting less speed. On the run drawing the body leans forward, and the front foot is back further. On the fast run drawing the body leans away forward denoting speed, and the front foot is back now under the body.

The arms swing conversely with the legs. The left arm swings with the right leg and vice versa. Also the arms swing more violently in the run. In the fast run the swing on the arms would be too violent. It has been found they are more effective when held straight out in a reach position.

Compare the action of the walk with the run, and you will note that in the walk, the drawing in which the arms and legs are stretched out further is the contact drawing. On the run, however, the stretch comes when the figure is up in mid-air at the high point in the action.



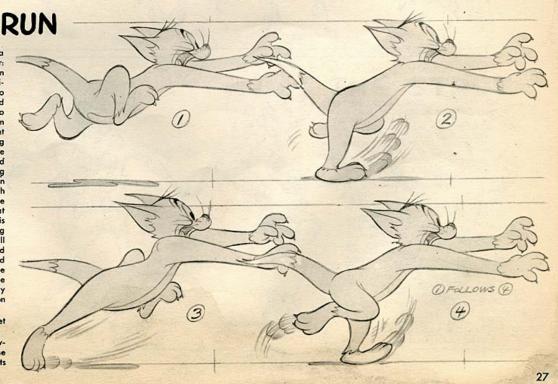


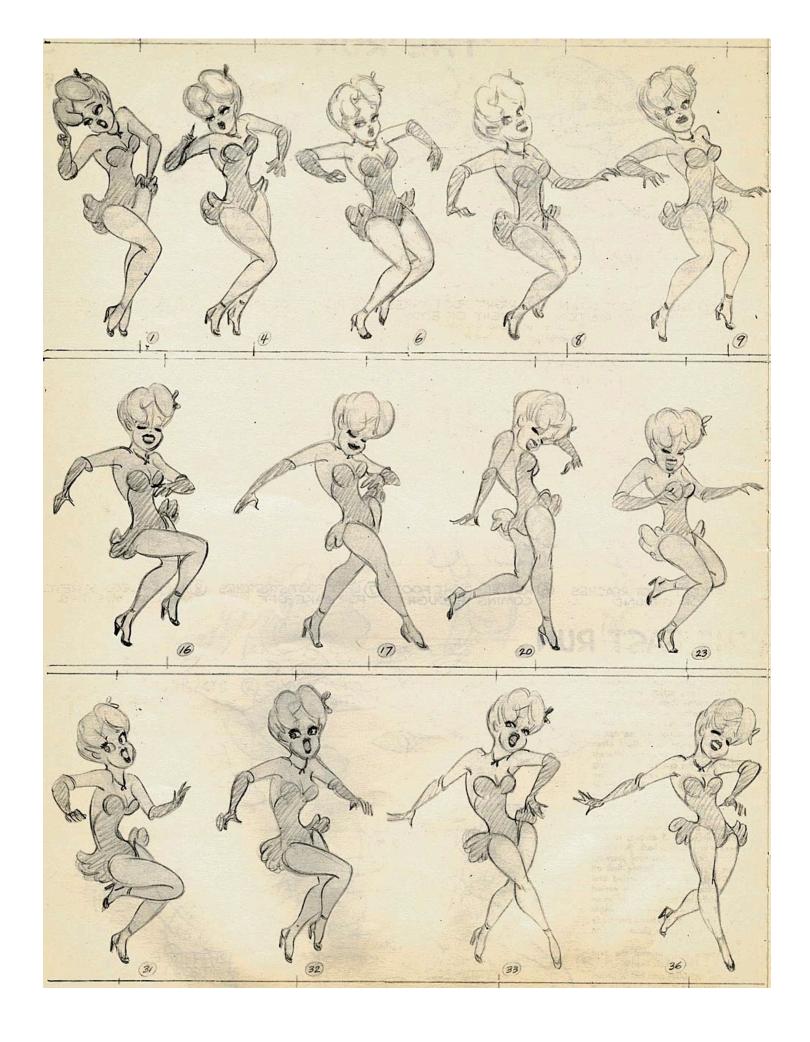
THE FAST RUN

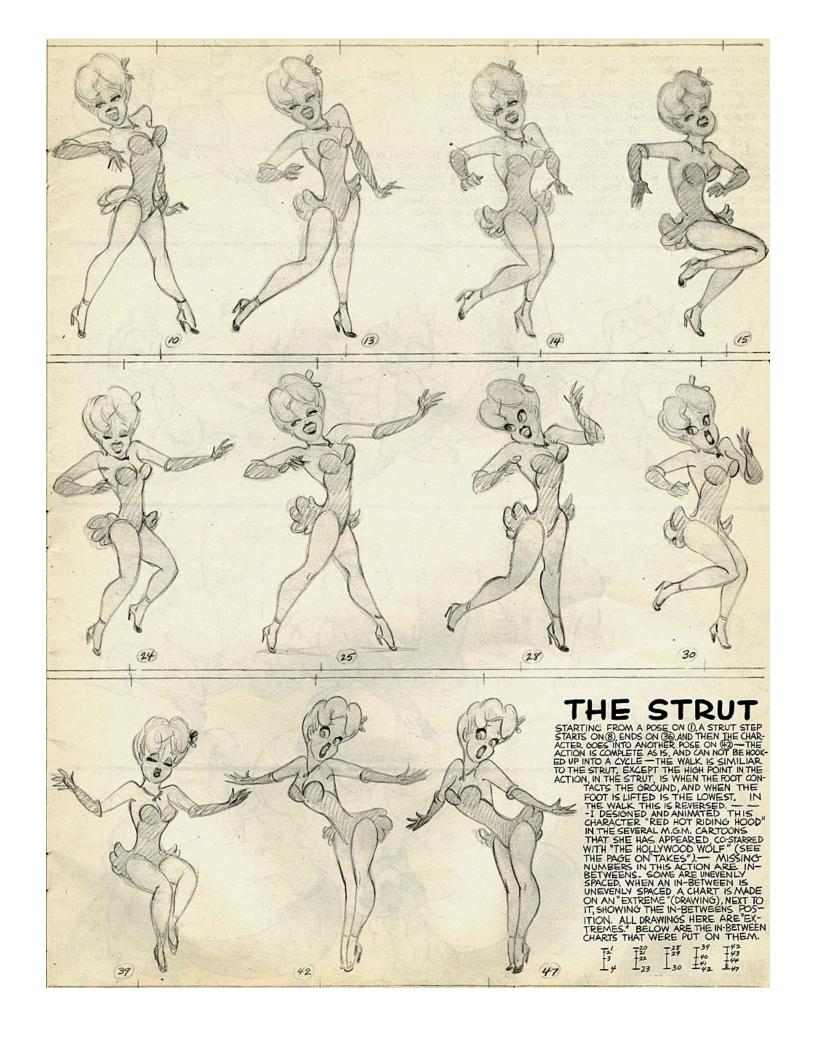
In animating a fast run here is a rule about animation to remember: To have an action drawing in practically the same silhouette position as another within one or two frames (exposures) is not a good practice. The action will be apt to look monotonous and might often give a false illusion and a different effect than the one you are striving to create. As for example, those moving wheels in old fashioned movies, that appear to be going backwards instead of forwards. In the walk and run there are enough drawings between similar silhouette positions (1 and 5 above) so that there is no problem here. But that is not the case with this four drawing cycle of a fast run. Notice that all foot action drawing is varied and not similar to any other. 3 is varied to be different from 1, and the same with 2 and 4. There is a single circular action on the head and body instead of a double circular action as in the walk and run.

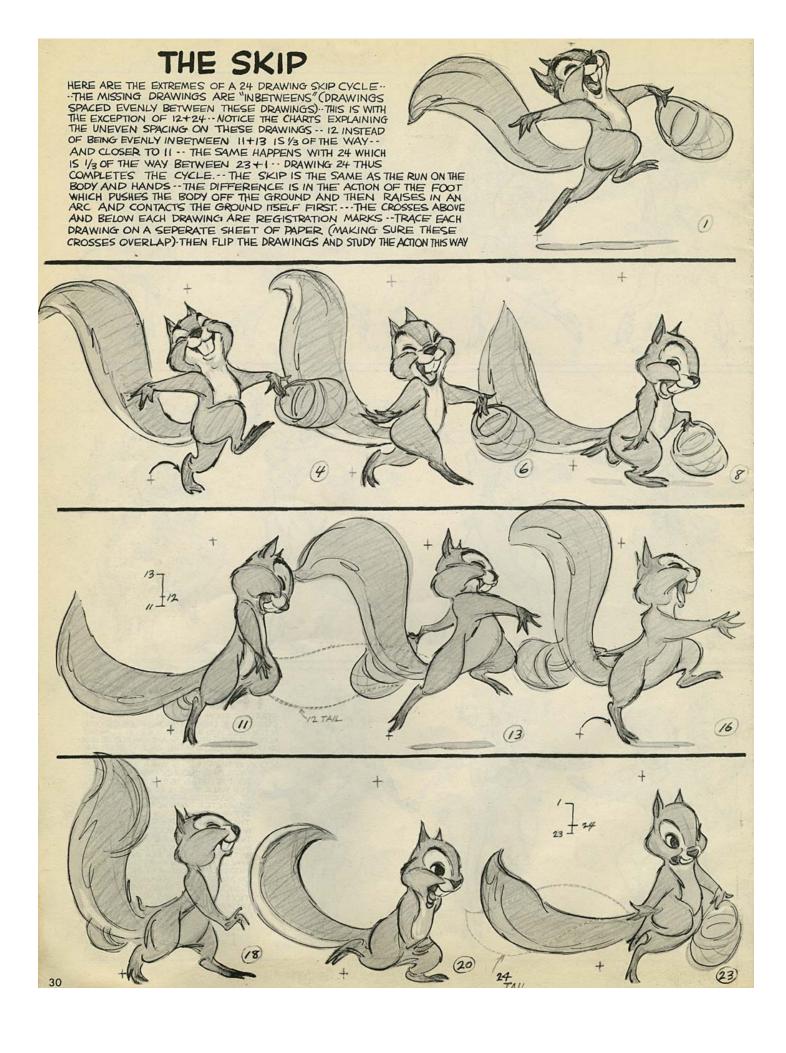
The speed lines around the feet help in a fast action like this.

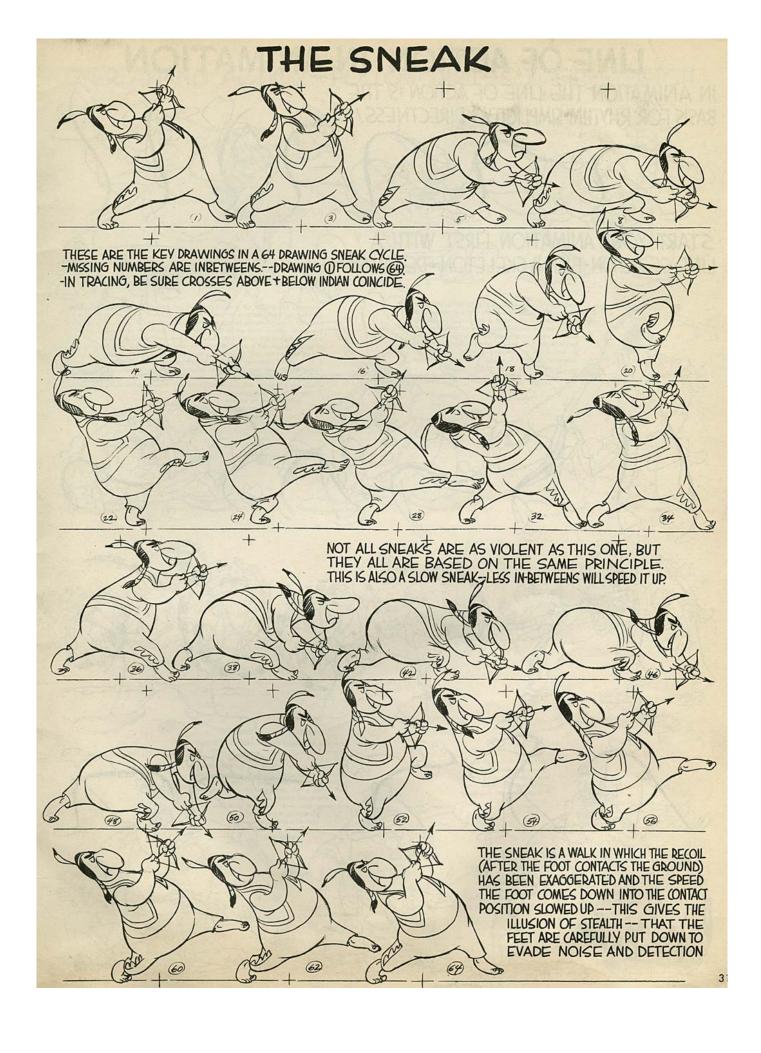
The crosses above and below drawings represent a fixed point on the screen. If you trace these repeats be sure that they coincide.

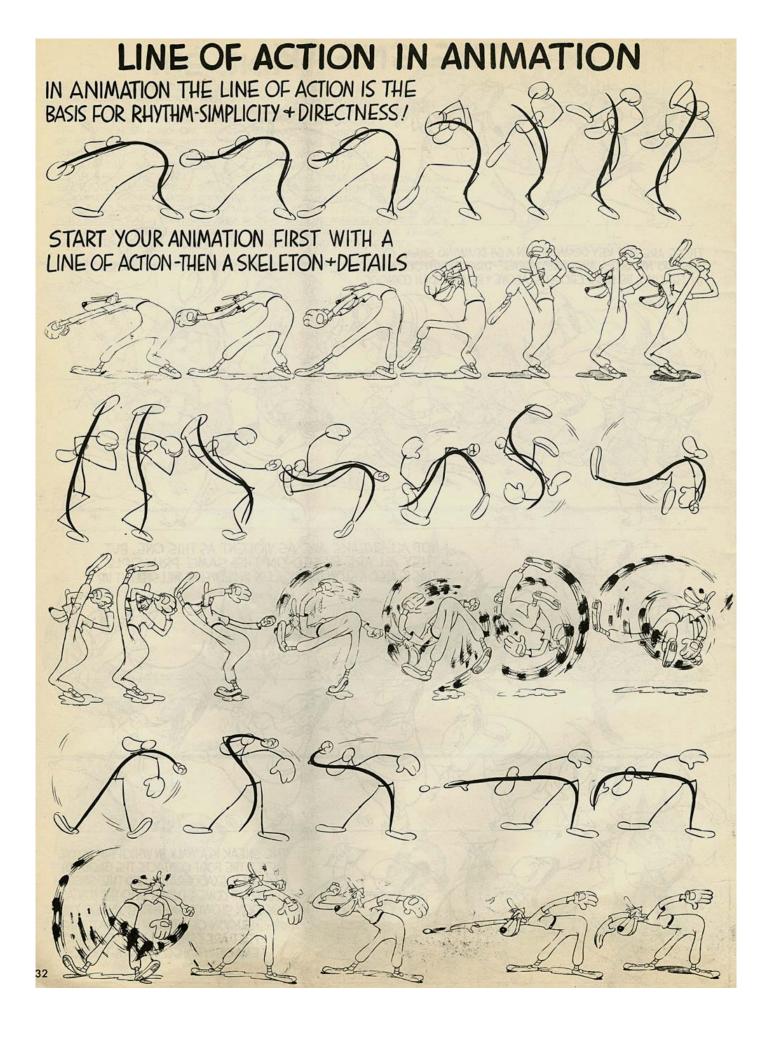


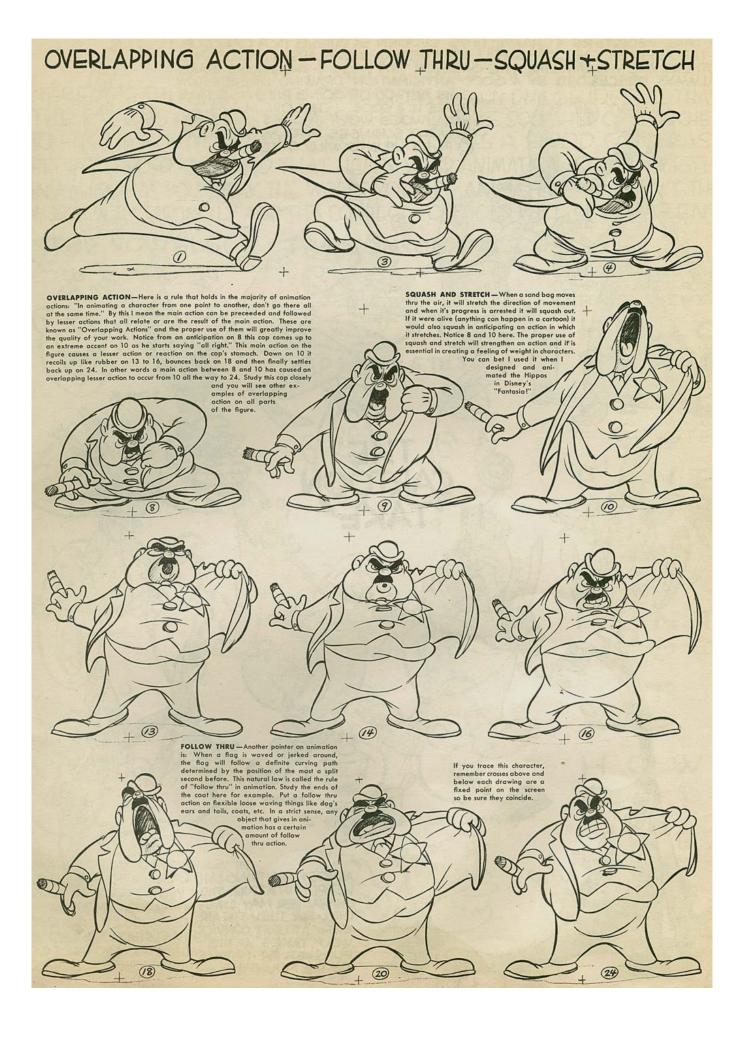


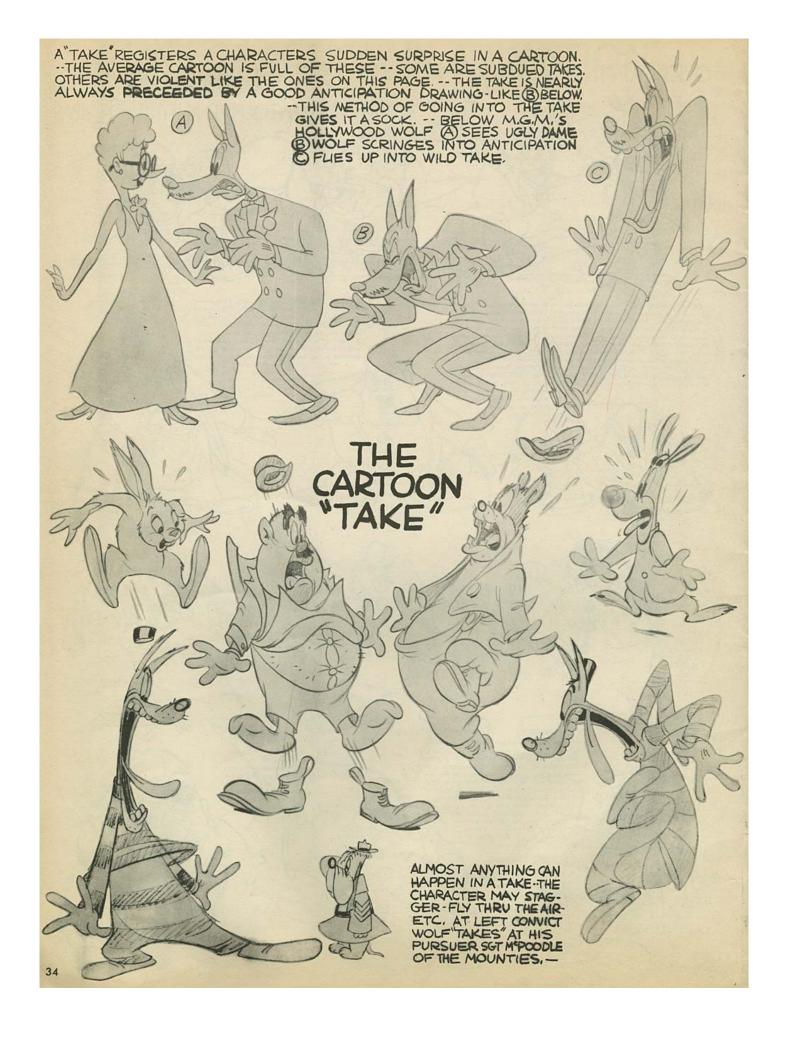






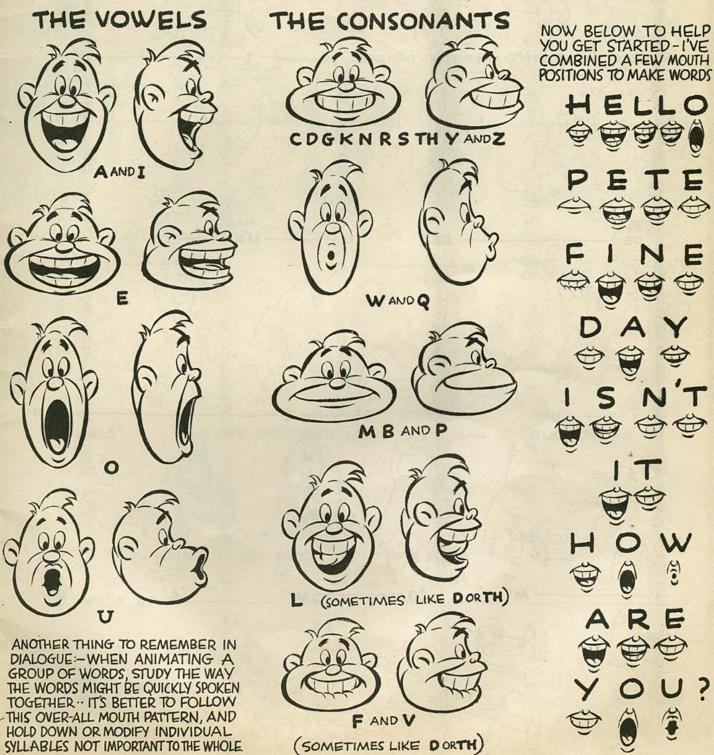




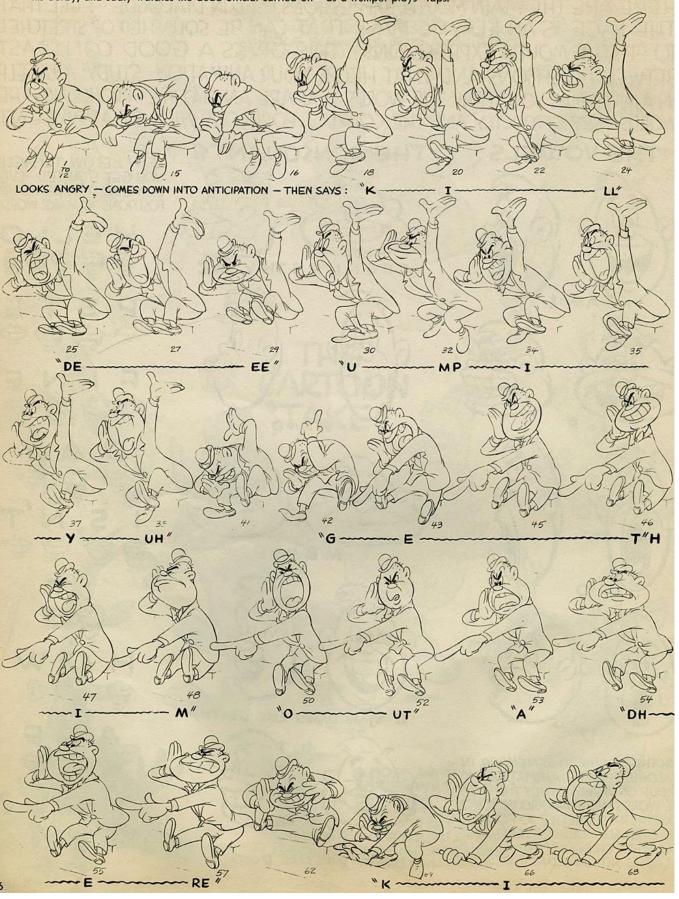


# DIALOGUE

HERE ARE THE MAIN MOUTH EXPRESSIONS USED IN DIALOGUE. FEEL THAT THE FACE IS AN ELASTIC MASS THAT CAN BE SQUASHED OR STRETCHED TO FIT THE MOUTH EXPRESSIONS. "THIS GIVES A GOOD CONTRAST BETWEEN POSITIONS AND THAT HELPS YOUR ANIMATION." STUDY YOURSELF IN A MIRROR AS YOU SPEAK THE WORDS YOU ARE ANIMATING. PRONOUNCE THE WORDS VERY DISTINCTLY AND THE CORRECT POSITIONS WILL BE APPARENT.



Here are the cleaned up "key" drawings from a Scene I animated in a M.G.M. cartoon to give you some ideas how dialogue can be animated. Missing numbers are inbetween drawings put in by assistant artists. First drawing is a twelve drawing "hold." The scene is a baseball grandstand. This little heckler is yelling, "Kill de Umpire—get 'im out o' dere—kill de Umpire—kill de Ump." At this time an offstage shot signifies the umpires execution. Heckler goes into a surprise "take." Then he rises, removes his derby, and sadly watches the dead official carried off—as a trumpet plays "taps."



Look over this action and study the animation points I have previously outlined as: Squash and stretch on heads, overlapping action, follow thru, the use of the anticipation drawing, and the dialogue vowels and consonants from page 35 — also notice the general phrasing of the dialogue here. How the heckler assumes a general position for a whole sentence—then changes to another position for the next sentence—instead of changing positions on every word. SHOT OFFSTAGE) ANTICIPATES TAKE" "DO INTO SURPRISED LOOK SAD EXPRESSION AS HE -STANDS UP REACHES FOR HAT



