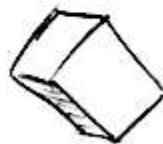




Where to begin... well ... I suppose the first thing to consider in drawing a character is its CONSTRUCTION. The character must be constructed out of basic shapes —

That is to say ~~2~~ Dimensional shapes, spheres

Boxes



AND CYLINDERS

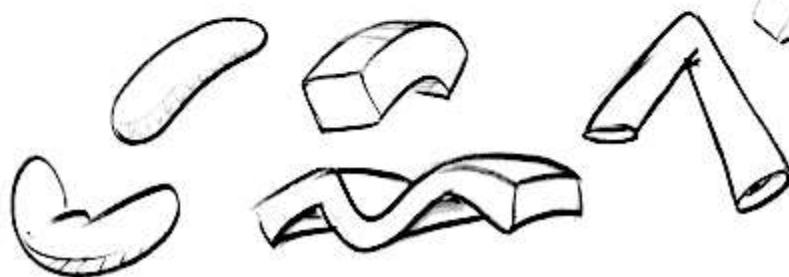


MANIPULATING the Basic Shapes

You can STRETCH 'EM!



BEND 'EM!





Let's practice manipulating the basic shapes starting with the ball.



PLOT A SERIES OF ARCS FOR IT TO FOLLOW..



And bounce the ball ALONG it!



REMEMBER

IF YOUR BALL IS MADE OF RUBBER,
IT WILL HAVE ELASTICITY, AND WILL
SQUASH UNIFORMLY OR ELIPTICALLY



A TOUCH O'SHADOW!

IF YOU FLATTEN IT ON THE
BOTTOM, IT WILL LOOK LIKE A
SORRY, SQUASHED MEATBALL

NO REASON
TO BOUNCE!



So, After you've got THAT down, TRY ANIMATING IT IN PERSPECTIVE!

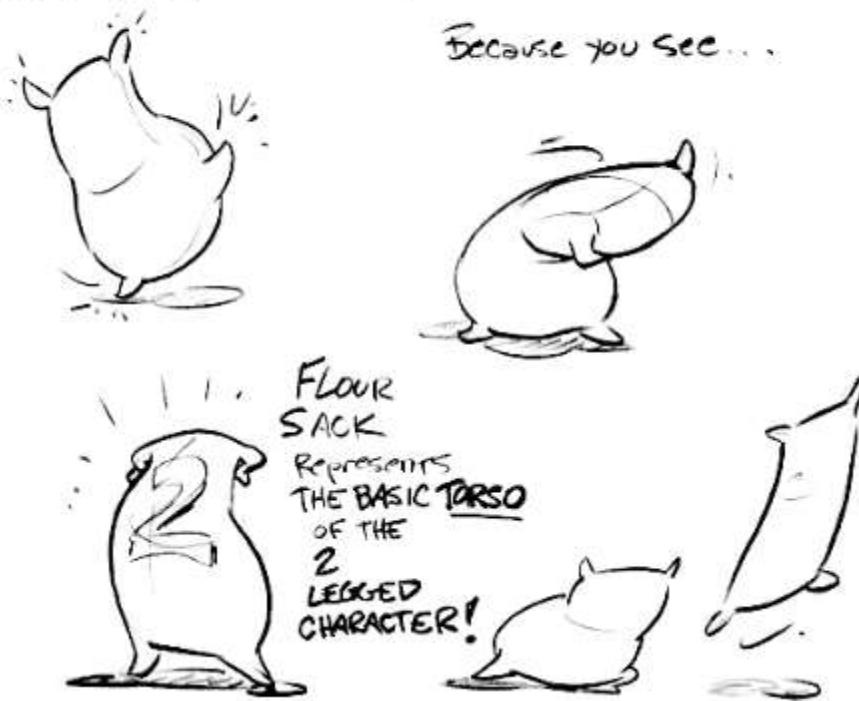
Plot a series of arcs growing either BIGGER TOW. CAMERA
OR SMALLER AWAY FROM CAMERA

**PUT 'EM TOGETHER
AND WADDAYA GOT?**



Let's just give the sack
some nubs at the corners, to act as arms and legs...

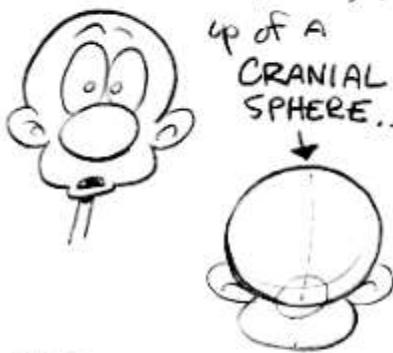
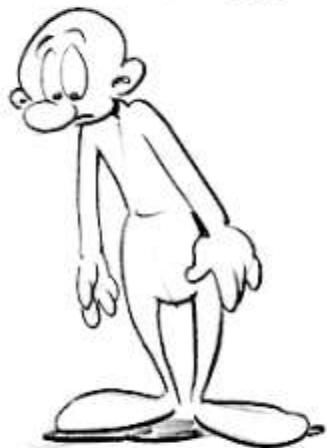
Because you see...



Next let's add some legs to the sack...



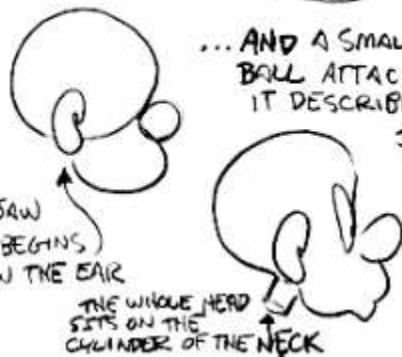
WE'LL CALL THIS GUY **MR. BASIC**



His Head is made up of a CRANIAL SPHERE...



...AND A SMALLER BALL ATTACHED TO IT DESCRIBING THE JAW



THE JAW AREA BEGINS BELOW THE EAR

THE WHOLE HEAD SITS ON THE CYLINDER OF THE NECK

BASIC HAND STARTS
WITH A BOX
FOR THE FLAT OF
THE HAND ...



ADD AN OPPOSEABLE
THUMB,

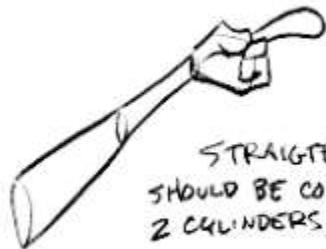


ROUGH IN
A SHAPE FOR
THE
ATTITUDE OF
THE
FINGERS



ELABORATE
AND
DIVIDE
THE FINGERS

ARMS ARE
2 CYLINDERS



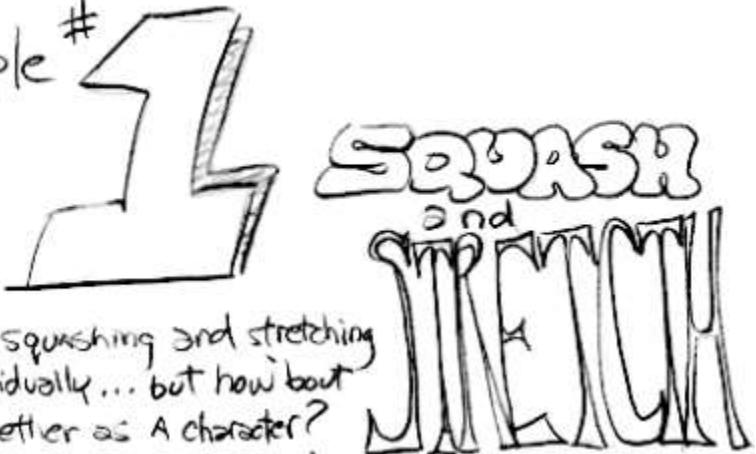
STRAIGHTENED LIMBS
SHOULD BE COMPOSED OF
2 CYLINDERS; EVEN THO...

AND
NOW...
Woo!

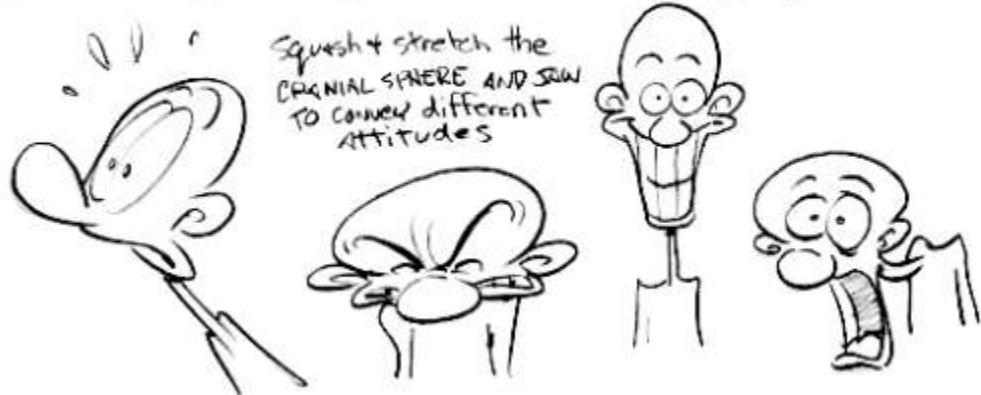
See if you can make MR. B. move...
IN the next few pages he will
take you through the basic
principles of ANIMATION



ANIMATION Principle



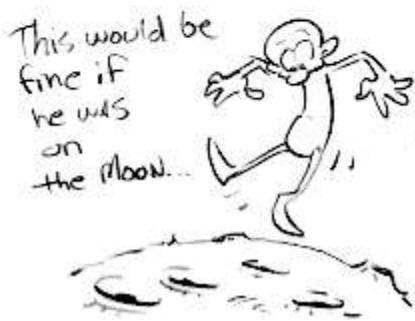
We've already practiced squashing and stretching the basic shapes individually... but how bout when they're joined together as A character?



PRINCIPLE #2

ANTICIPATION

Well, we all know that in order to make our character jump up WE NEED TO SHOW HIM GOING DOWN FIRST. IF WE DON'T, HE WILL APPEAR TO FLOAT UP OFF THE GROUND.



BUT
on earth, he
must contend
with GRAVITY... so...



He must do THIS...



PRINCIPLE #3

LETPAFINE

The Story, the most important element of ANY NARRATIVE entertainment MUST BE TOLD CLEARLY, but since we don't have a story yet, lets just say we should show what our character is doing clearly enough so the action can READ.



PRINCIPAL #4 STRAIGHT AHEAD & POSE to POSE

These are 2 main approaches to creating Action...
o.e. animating!

STRAIGHT AHEAD MEANS YOU DO THE DRAWINGS IN SEQUENCE, ONE AFTER ANOTHER...



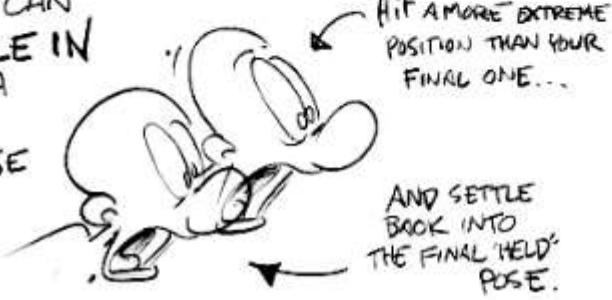
PRINCIPLE #5 FOLLOW THROUGH AND OVERLAPPING ACTION

These are simply ways of keeping your character "alive"

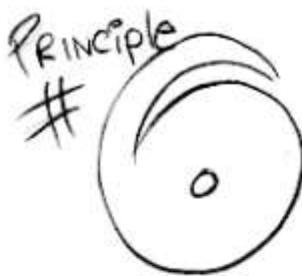
Nothing will remind a viewer that he is watching drawings like having those drawings pop to a sudden stop. Yet, some poses need to be seen long enough for the viewer to register them.

There are a few ways to deal with this conundrum...

YOU CAN
SETTLE IN
TO A
HELD
POSE



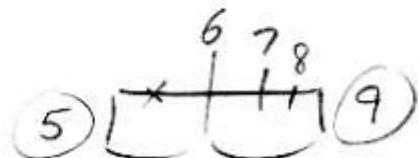
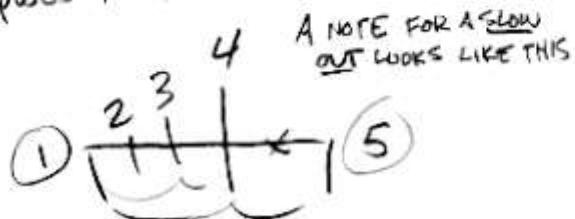
YES! There is much more to this principle... but let's hold off on the rest till later...



SLOW IN & SLOW OUT

We already mentioned slowing out of the tops of our arcs when we were bouncing our balls... them... our SPHERES back on page 3...

As a general rule: action will usually tend to slow out of the tops and bottoms of an arc, or what are usually the extreme poses in your action.



PRINCIPLE
#5

SECONDARY ACTION



You can use it to create
SECONDARY ACTION - MOVEMENT
CREATED BY THE PRIMARY ACTION

Here, the Primary Action is the RUN.
DRAG THE FLOPPY HAT BACK IN THE
PATH OF ACTION TO CREATE A
SECONDARY ACTION.

PRINCIPLE
#

TIMING



The MORE inbetweens you put between your extremes - THE LONGER your action will be drawn out. So how do you figure out how long you want to make your actions? The only true answer to that is: "EXPERIENCE".
But until you gain experience, here are some rough guidelines...

PRINCIPLE #9



We all know what an ARC IS...

we use it as a PATH OF ACTION when we're plotting
a move from one pose to the next.



Animation without
arcs will tend
to look
mechanical



TRY TO
SEEK OUT
NICE,
LOOSE,
NATURAL
ARCS TO MOVE
YOUR ACTION
ALONG.



PRINCIPLE #10



Let's face it, cartoons were
not invented for their ability
to convey subtleties!

OK, so no cartoon character ever
won an Oscar for best Actor...

But let's see Al Pacino do this!

MAKE each required attitude
of your character AS BIG
AS YOU CAN!

WHAOO-HA!!



PRINCIPLE #11 SOLID DRAWING

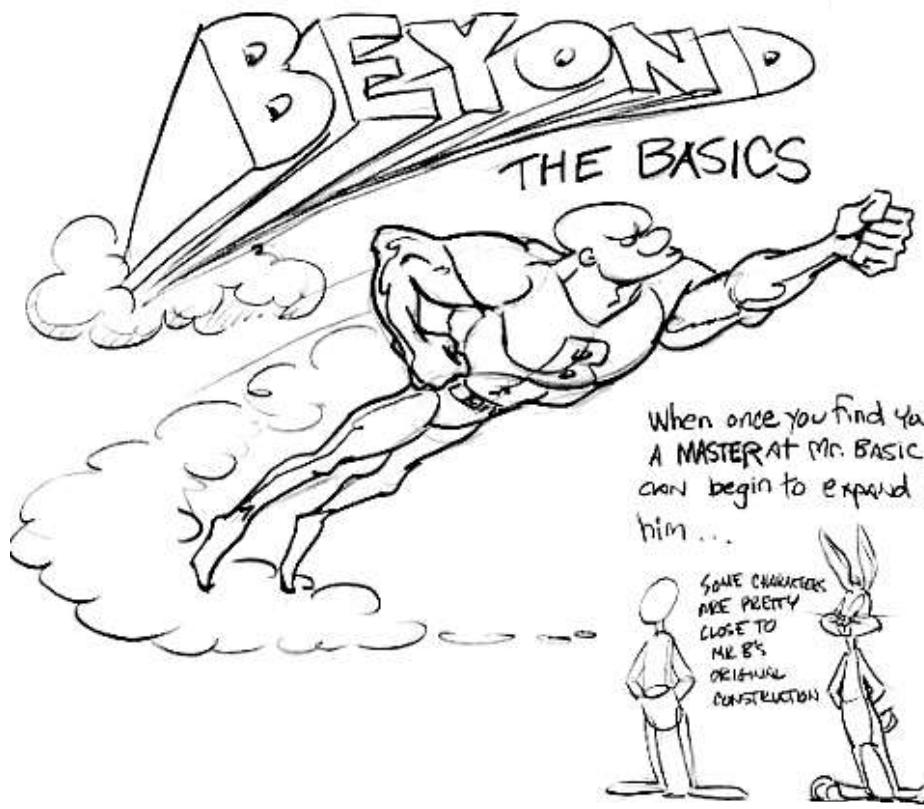
Again... always remember to CONSTRUCT your characters using basic shapes. This, if done correctly, will give your character the look of being 3 DIMENSIONAL.

ANY character animated in the traditional classical way will have a CONSTRUCTION FORMULA that he/she/it can be broken down to. Whether squashed, stretched, twisted, tapered, or bloated they are all basic 3 Dimensional shapes. You just have to connect them AND move them around in the right way!

PRINCIPLE #12 APPEAL

HEY, to make a character appealing, you've got to make him AS cute AS possible, right?





When once you find yourself
A MASTER AT MR. BASIC, you
can begin to expand upon
him...



SOME CHARACTERS
ARE PRETTY
CLOSE TO
MR. B'S
ORIGINAL
CONSTRUCTION



PLAY Around with altering
the basic body construction
to create different
characters!



Many times in animation, an artist will endeavor ...



Let's
START
WITH

2 LEGGED CHARACTERS,

Ancient Animators* have discovered, that in a 2 legged character, bodily movement usually begins AT THE CENTER OF GRAVITY, OR PELVIC REGION... SO THAT IS WHAT WE WILL START ON.

THE PELVIC CYLINDER

* THE "OLD MEN" OF LORE

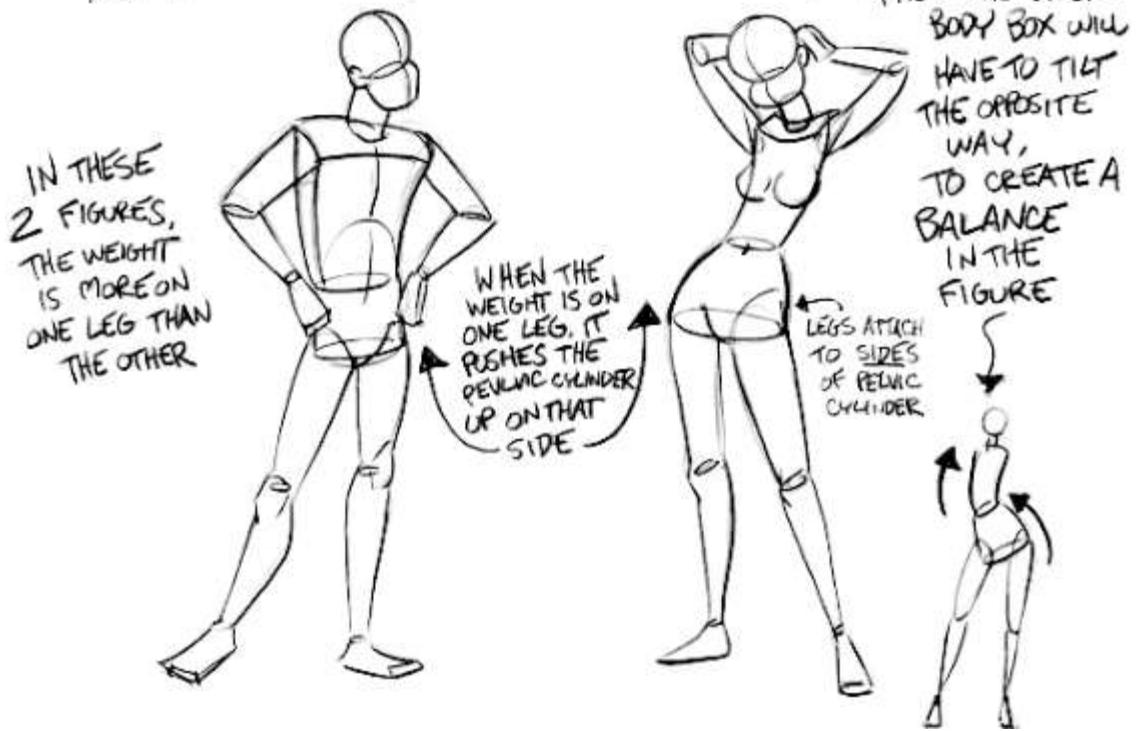
IN GENERAL,

A MALE
HUMAN'S
PELVIC CYLINDER
IS FAIRLY
STRAIGHT

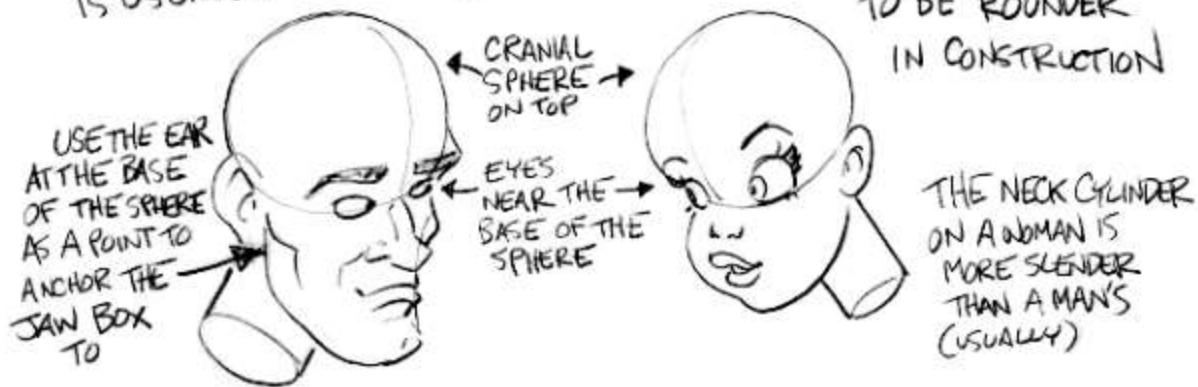


IN A FEMALE
THE CYLINDER
TENDS TO WIDEN
AT THE BASE (HIP)
AND TAPER AT
THE TOP (WAIST)

A General Rule of Body Attitude is that when THE PELVIC CYLINDER is tilted one way



The male head is usually more angular ... WHILE A FEMALE HEAD TENDS TO BE ROUNDER IN CONSTRUCTION



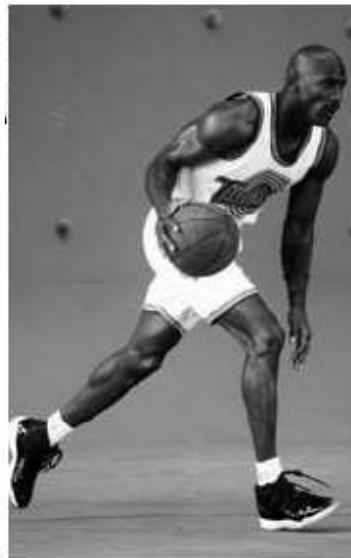
MUSCULATURE SHOULD BE ADDED AFTER THE INITIAL CONSTRUCTION



THE MUSCULATURE ON A FEMALE ARM IS FAR LESS PRONOUNCED USUALLY



Here much of the body is covered up by loose clothing, and the pelvic cylinder is partially obscured by a prop.
(the basketball)



You must learn to
SEE
THROUGH
the obstructions
with your "MIND'S EYE"
To the
Basic shapes
of the
figure

The pelvic cylinder is angled forward



CONSTRUCT THE ENTIRE FIGURE
USING BASIC SHAPES.

THEN, USING THAT AS A
FRAMEWORK, BUILD ON THE
REST OF THE DETAILS.

Practice drawing the human figure in as many possible positions as you can. Using a live model is best of course, but if you can't get one, use reference or videotape.

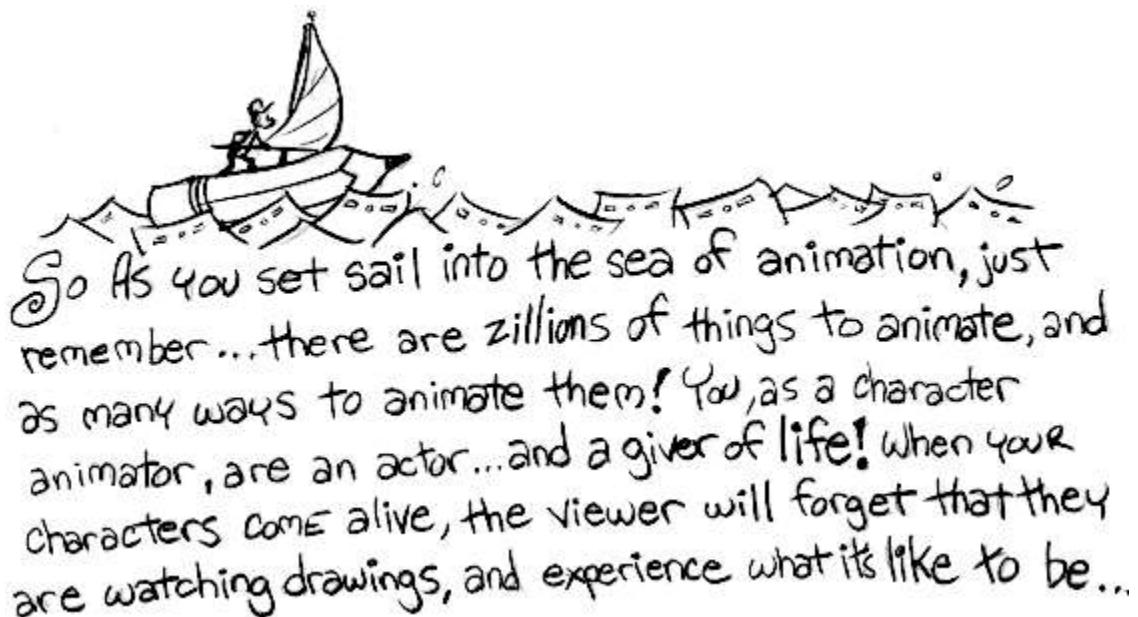
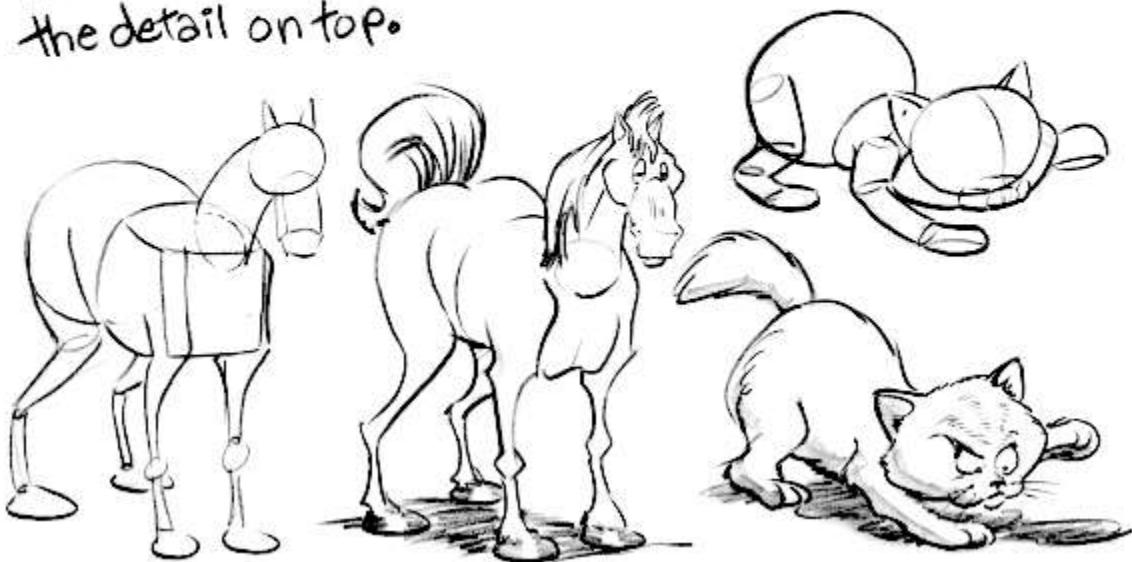


The "Legged" CHARACTER

If you've gotten a good handle on human construction, Then it's time to try drawing animals!



Practice drawing animals. Begin as with the human figure, with basic construction, and build the detail on top.



So as you set sail into the sea of animation, just remember... there are zillions of things to animate, and as many ways to animate them! You, as a character animator, are an actor... and a giver of life! When your characters come alive, the viewer will forget that they are watching drawings, and experience what it's like to be...