

DOUGHBOY

THE EVERYMAN TYPE, HIS PROPORTIONS, THOUGH CARTOONY, ARE THE MOST ORDINARY LOOKING.

EXAMPLES: MICKEY; BUGS; DONALD; DAFFY; TOM; ROGER RABBIT; FIEVEL. BABY

HEAD IS LARGE IN CONTRAST TO THE BODY; EYES WIDE APART; TINY HANDS.

EXAMPLES: TWEETY; JERRY; BABY HERMAN (ROGER RABBIT). HEAVY

LEGS & ARMS SHORT & STUMPY; SKULL SMALL IN RELATION TO JAW AREA.

EXAMPLES: GENIE (ALADDIN). LANKY

LARGE FEET AND HANDS IN CONTRAST TO BODY; LONG LEGS & LIMBS; VERY THIN.

EXAMPLES: GOOFY; OLIVE OYL. MUSCLES

SKULL VERY SMALL IN RELATION TO BODY: VERY LARGE JAW; HIPS NARROW IN RELATION TO CHEST; SHORT LEGS; BIG FISTS.

EXAMPLES: BLUTO; IRON GIANT.

HERO

IDEALIZED MALE FIGURE; LIKE 'MUSCLES', BUT MORE EVENLY PROPORTIONED.

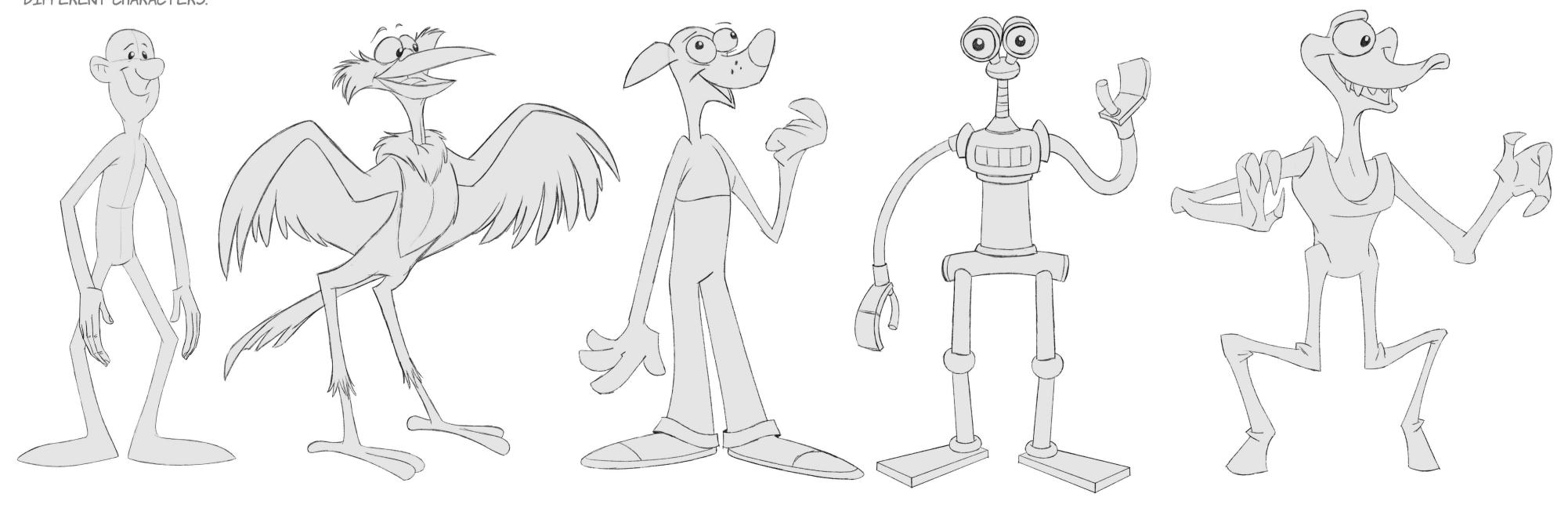
EXAMPLES: ALADDIN (ANY DISNEY PRINCE);

HEROINE

IDEALIZED FEMALE FIGURE, NARROW WAIST, WIDE HIPS & SHOULDERS.

EXAMPLES: JASMINE (ANY DISNEY PRINCESS).

MANY ANIMATED CHARACTERS ARE VARIATIONS OF THESE STOCK BODY TYPES. FOR EXAMPLE, THE 'LANKY' FIGURE CAN BE TRANSFORMED INTO AN ENORMOUS NUMBER OF DIFFERENT CHARACTERS.

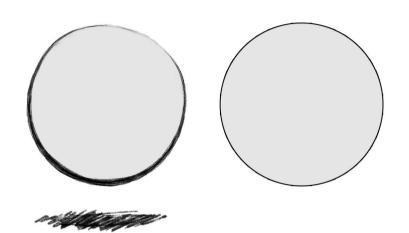


O1\_O1: CONSTRUCTION

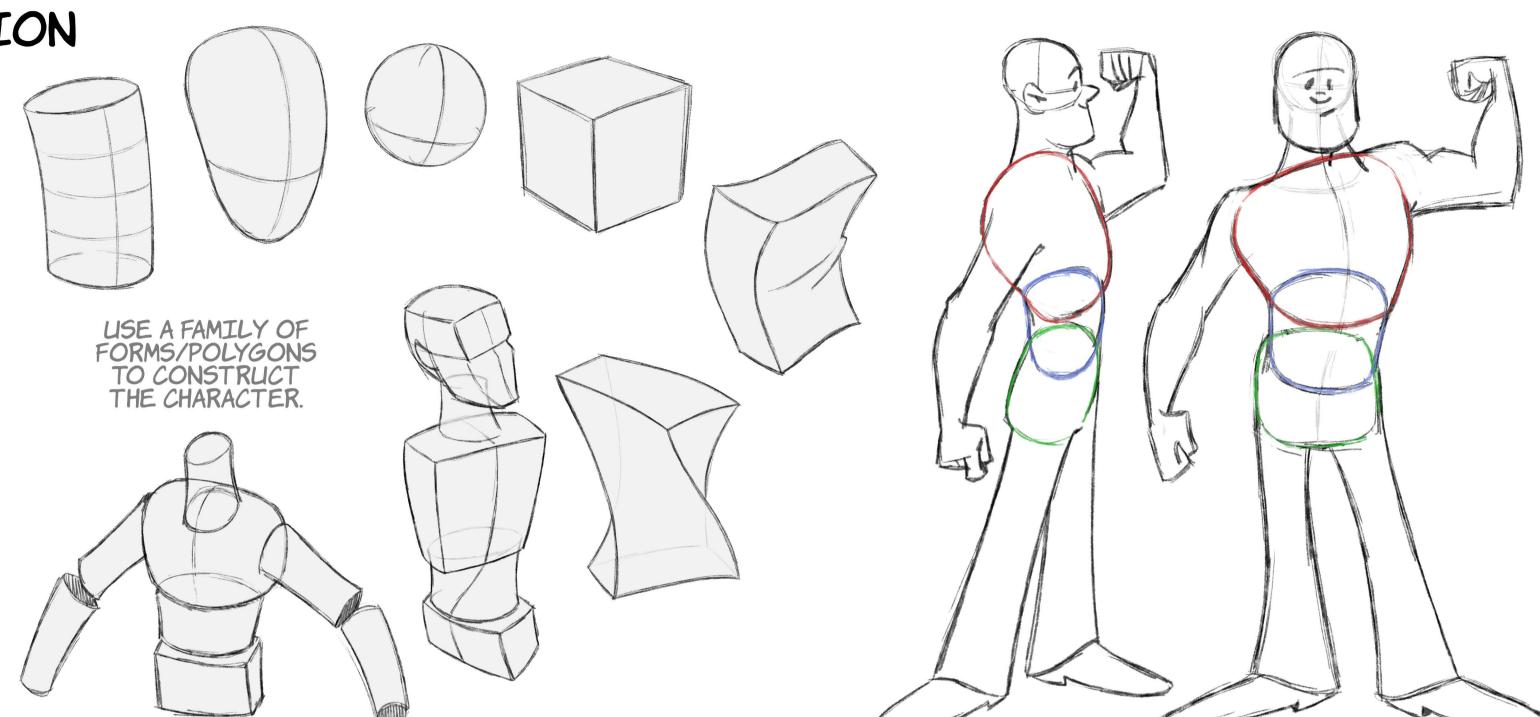
WHEN CONSTRUCTING YOUR CHARACTER, USE BASIC SHAPES.

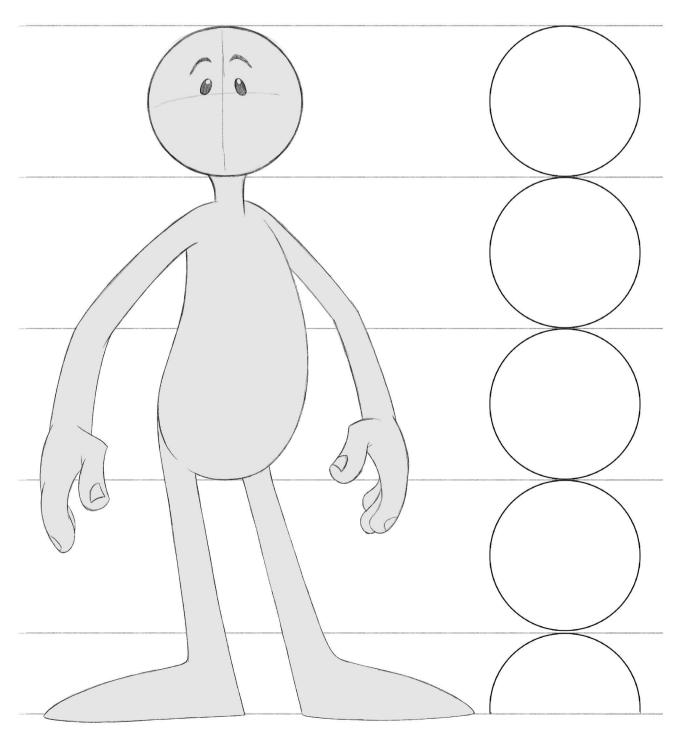
KEEP IT LOOSE; AVOID TOO MANY DETAILS AT THE START, AS YOU'LL BE CHANGING THE DESIGN A LOT AS YOU WORK.

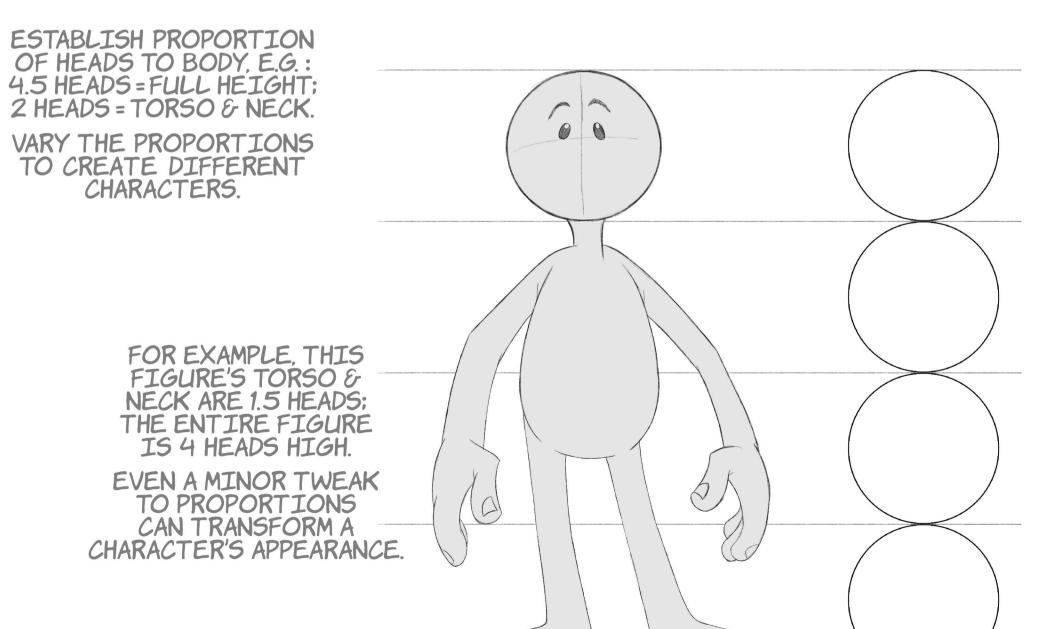
DRAW VOLUMES, NOT LINES! SPHERES, NOT CIRCLES!



THE LINE WEIGHT OF THE LEFT SPHERE HAS BEEN EXAGGERATED TO SHOW THE PRINCIPLE THAT LINES SHOULD CONVEY NOT JUST SHAPE, BUT VOLUME/MASS.



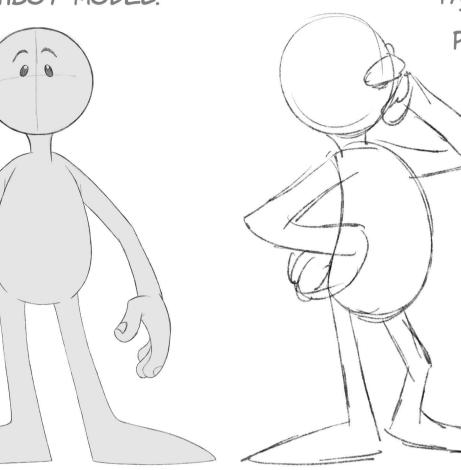




#### 01\_02: GESTURE & ATTITUDE DRAWINGS

GESTURE DRAWINGS CAPTURE EMOTIONS, MENTAL STATES OR BROAD POSES/ACTIONS.

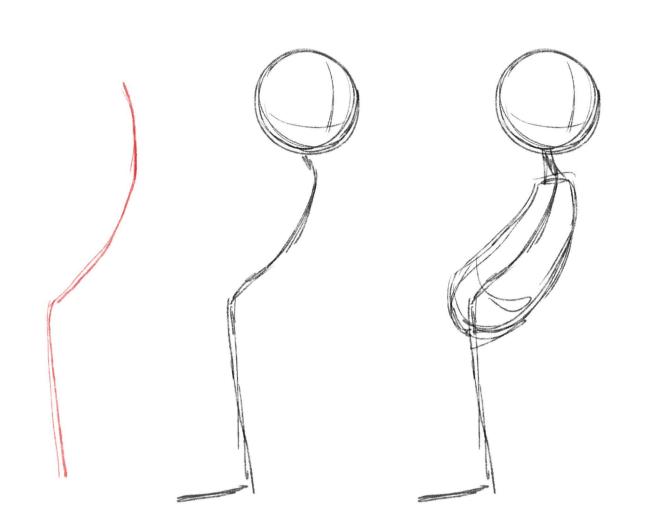
TAKE THE BASIC 'DOUGHBOY' MODEL.



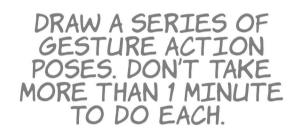
DRAW THE POSE FAST AND LOOSE. TRY TO KEEP PROPORTIONS ACCURATE.

> WATCH VOLUMES AND PROPORTION. DON'T DRAW FINE DETAILS.

THIS LEVEL OF DETAIL IS FINE FOR MOST GESTURE DRAWINGS. 1. DRAW QUICKLY. LAY DOWN THE SPAN OF THE POSE, HEAD TO TOE. DRAW LINE OF ACTION. 2. BLOCK IN MASSES. SIMPLE FORMS FOR CHEST, HIPS, ETC. WATCH PROPORTIONS. 3. ADD SUPPORTING LIMBS AND ANY SECONDARY BODY OR COSTUME PARTS.





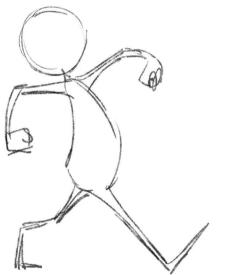


IF YOU GET STUCK ON A POSE, DON'T STRUGGLE WITH IT. MOVE ON TO A FRESH DRAWING.







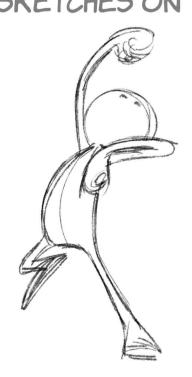










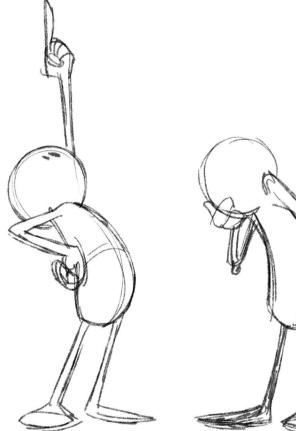


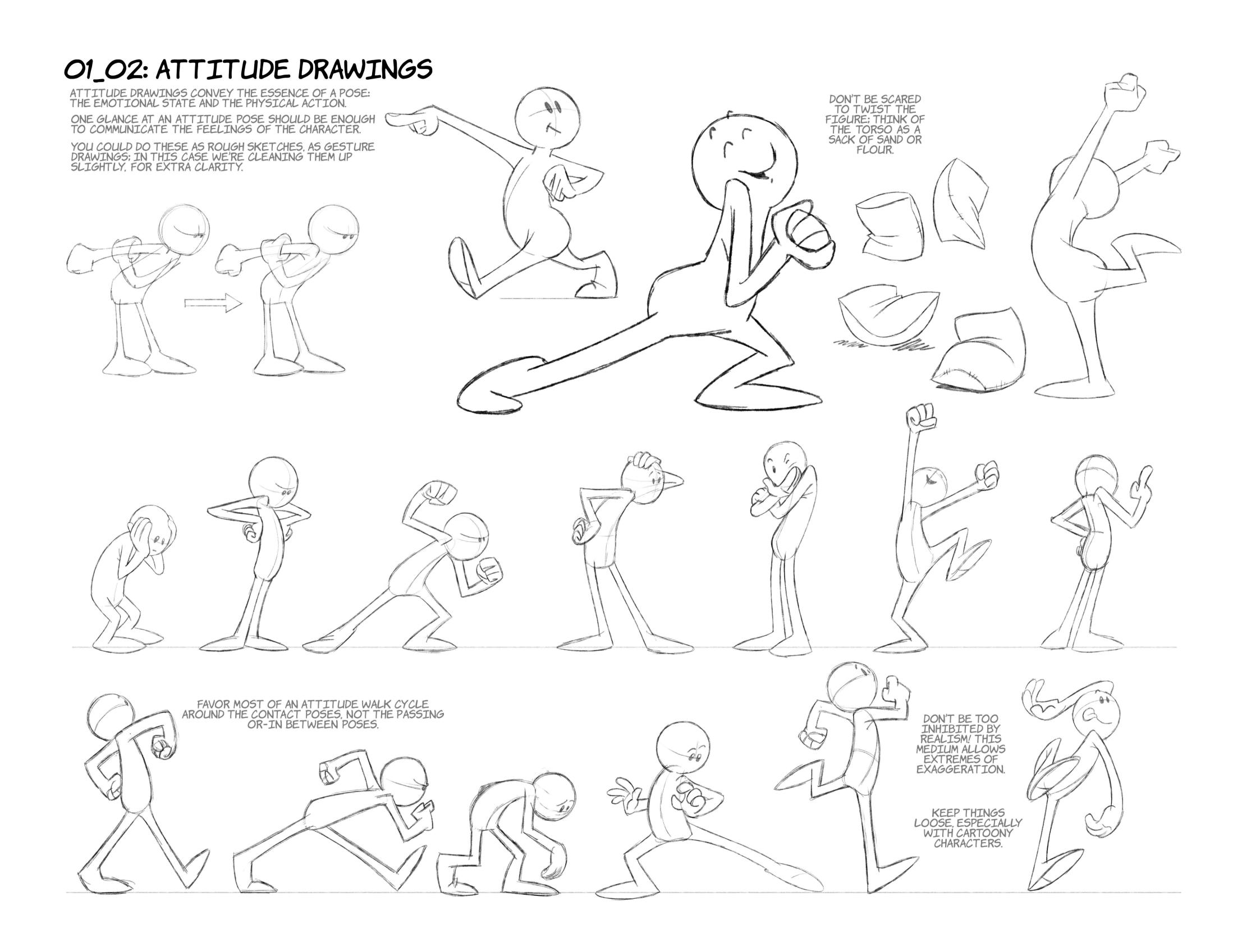


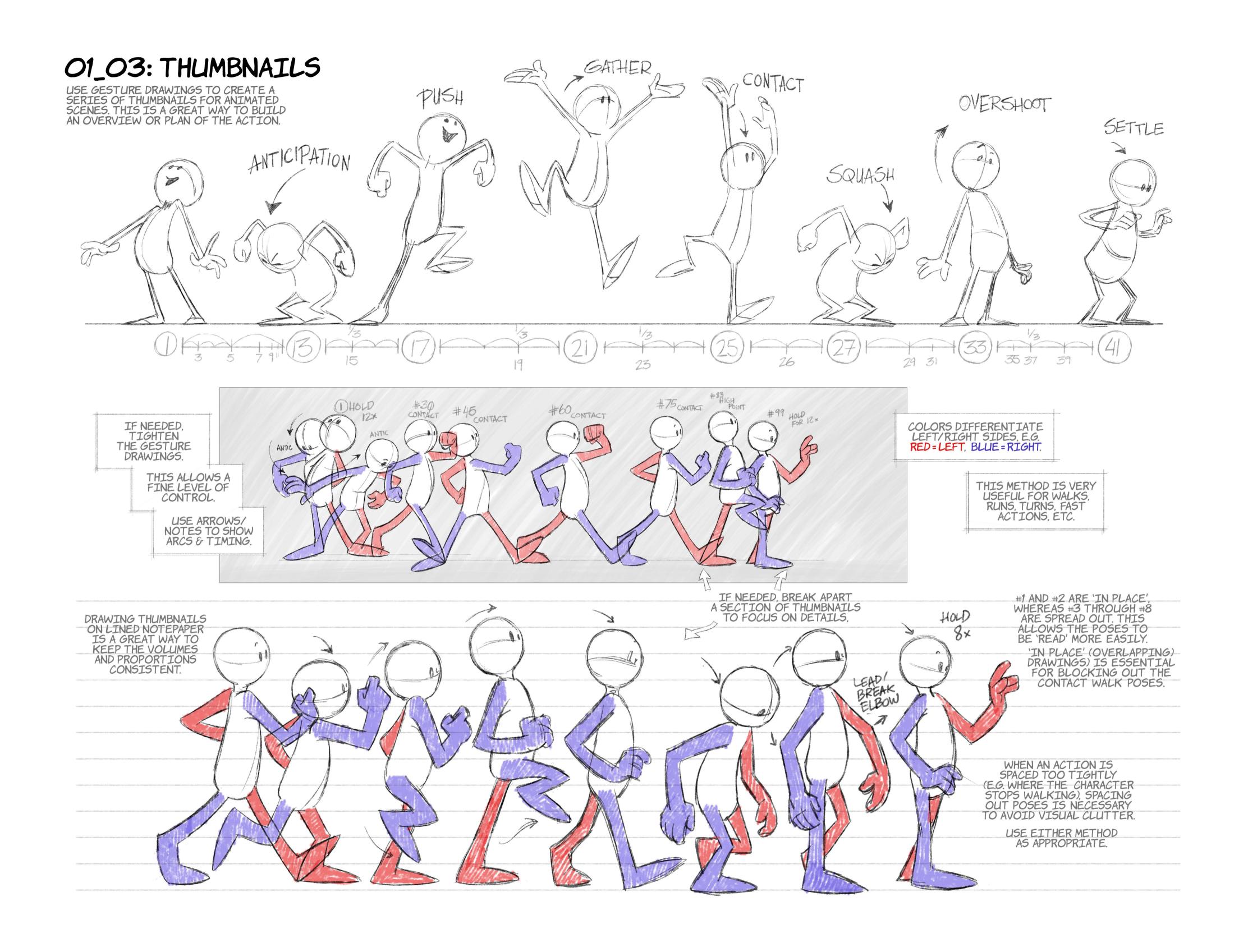






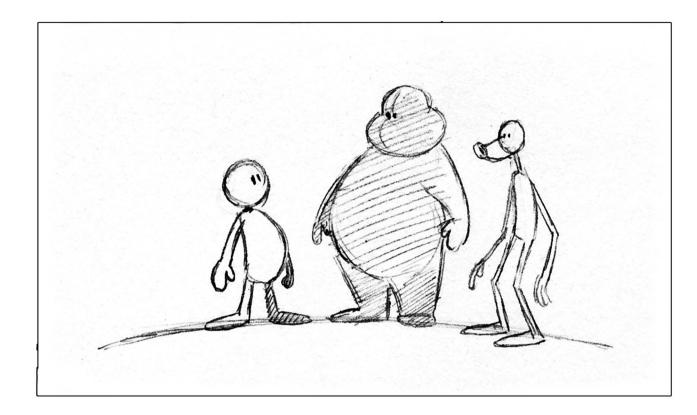




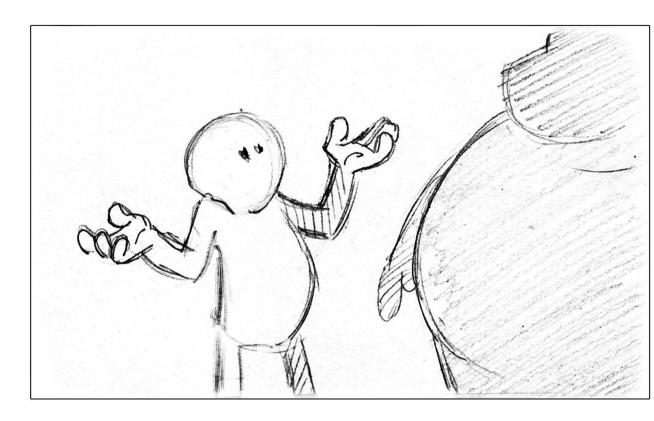


#### 01\_04: STORYBOARD & STAGING

THIS IS A DRAWING COURSE, SO THIS IS ONLY A QUICK INTRODUCTION TO THE SUBJECT OF STORYBOARDS. IT'S IMPORTANT TO UNDERSTAND THAT BOARD ANGLES WILL AFFECT YOUR DRAWING DESIGNS.

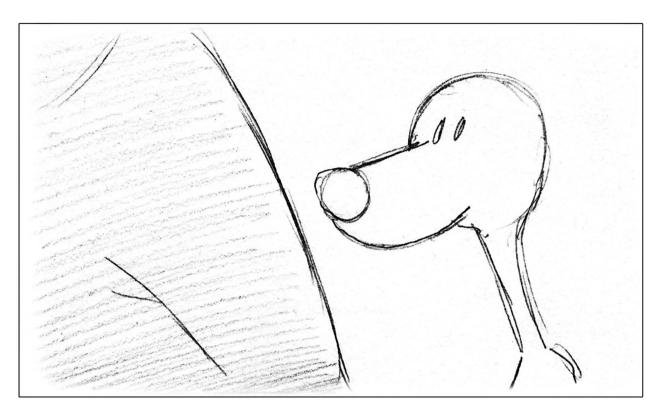


BECAUSE OF THE LIMITATIONS OF FLASH/CGI/TV PRODUCTION, AND WEAK CREATIVE DIRECTION, THIS TYPE OF "ZERO POSE" STAGING HAS BECOME INCREASINGLY COMMON. CHARACTERS ARE PLACED IN THEIR DEFAULT RIG/MODEL SHEET POSES, LEAVING MANY SCENES DEVOID OF ANY DYNAMIC FEELING.



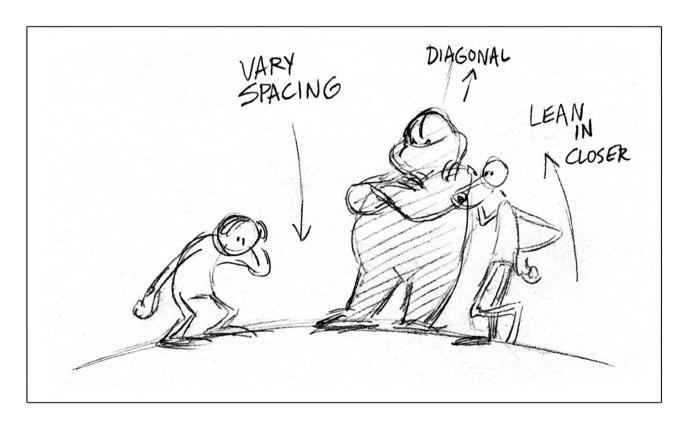
THE ADVANTAGE OF THIS METHOD IS SPEED. ONCE THE SCENE IS SET UP. THE CAMERA CAN BE ZOOMED IN FOR MEDIUM CLOSE-UPS.

THE ANIMATORS CAN THEN WORK OUT OF THE ZERO POSE OR RIG, WITH FEWER CONTINUITY HOOK-UP ISSUES.



HERE WE CUT TO A CLOSE-UP OF THE DOG, BUT AGAIN, IT'S JUST A CROPPED AREA OF THE FIRST SHOT.

THIS IS THE FASTEST & CHEAPEST WAY TO CREATE YOUR SCENES. BUT IT IS NOT THE BEST.



FIRST, DON'T FEEL COMPELLED TO START THE SCENE WITH THE CHARACTERS IN THEIR DULL RIG/ZERO POSES!

IN THIS EXAMPLE, WE'VE GOT A TRIANGULAR COMPOSITION, WITH THE MAIN CHARACTER EXPRESSING EMOTION, LEANING IN, WITH THE DUO TO THE RIGHT LEANING ON ONE ANOTHER. THE TRIO TOGETHER FORM A VISUAL TRIANGLE, A DYNAMIC POSE.



CUT TO A CONTRASTING CAMERA ANGLE; IN THIS CASE, AN OVER-THE-SHOULDER SHOT OF THE MAIN CHARACTER. THIS ALLOWS US TO SEE THE SKEPTICAL REACTION OF THE DUO, AND GIVES THE SEQUENCE VISUAL TEXTURE.

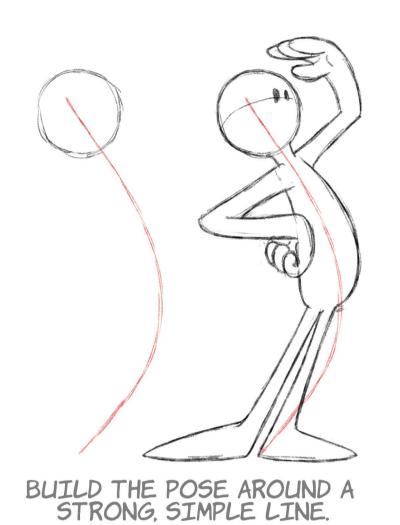


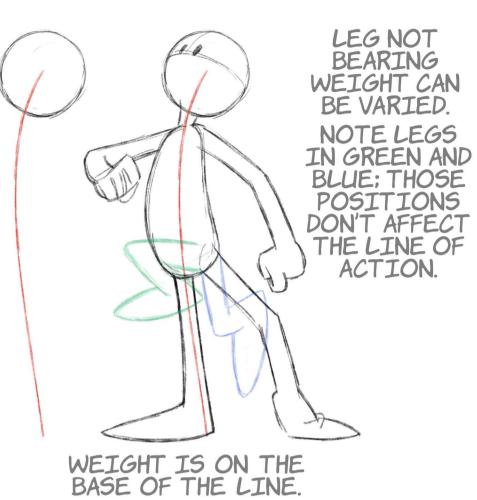
NOW A CUT TO THE CLOSE-UP OF THE DOG, AGAIN IN A STRONGER POSE.

THE OLD ENGINEERS' JOKE, WHEN FACED WITH AN IMPOSSIBLE DEMAND OF DOING SOMETHING FASTER, BETTER AND CHEAPER:

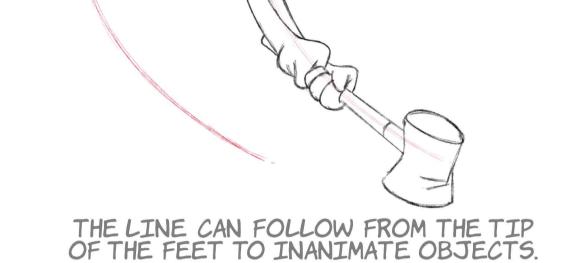
PICK TWO!

## 02\_01: LINE OF ACTION & REVERSALS

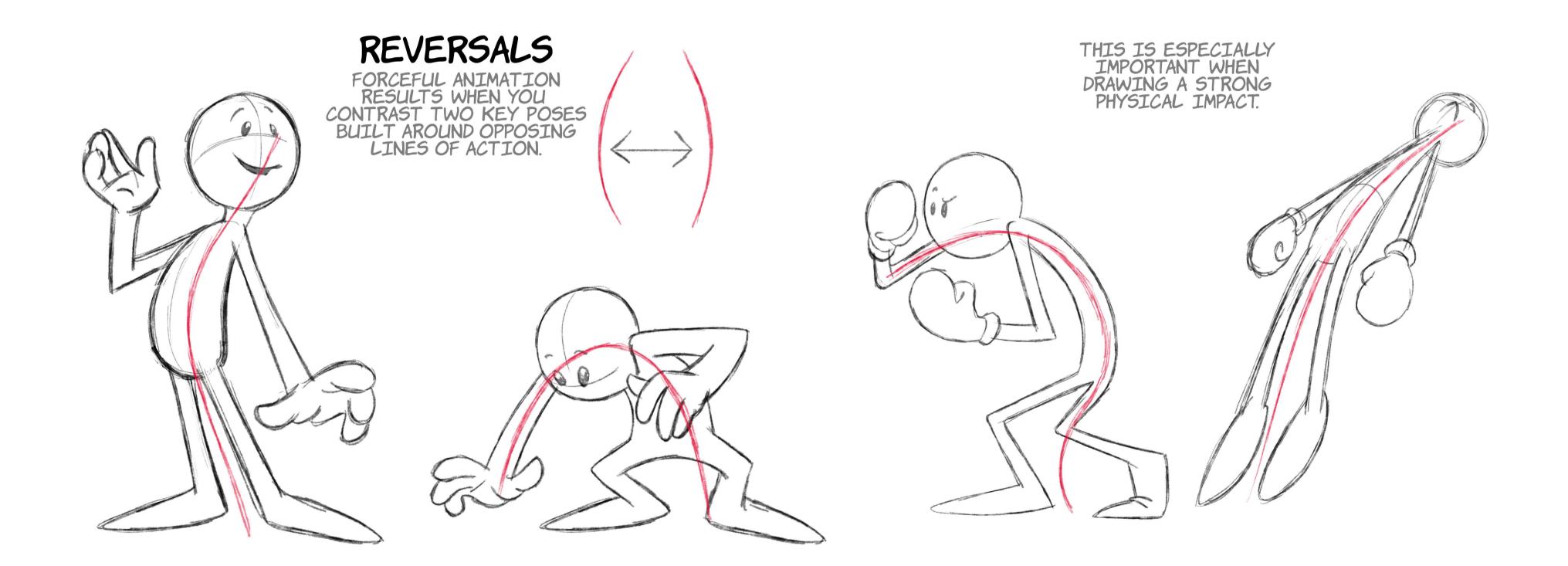




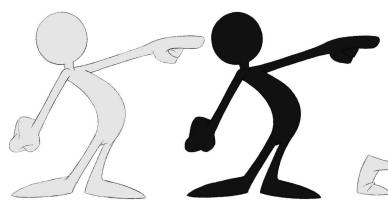




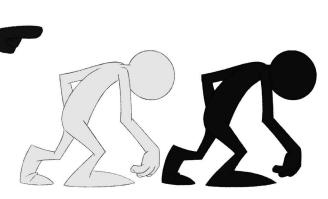
LINE OF ACTION CAN FOLLOW HAIR AND CLOTHING.



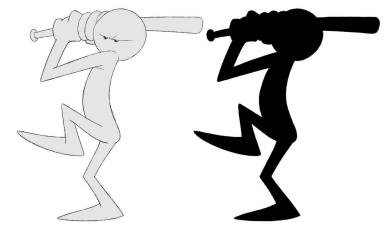
#### 02\_02: SILHOUETTE



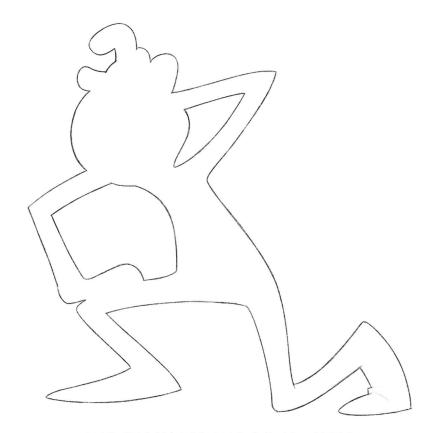
THE SILHOUETTE ALONE SHOULD BE ABLE TO CONVEY THE ACTION AND THE EMOTION/ATTITUDE OF THE CHARACTER.



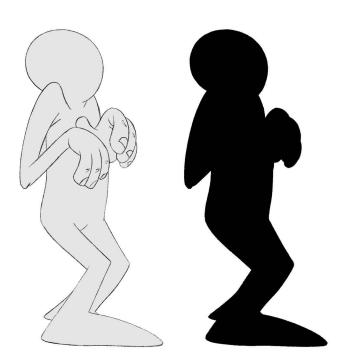
THE WALK AND THE WEARINESS CAN BOTH BE UNDERSTOOD FROM THE OUTLINE ALONE.



THIS IS ESPECIALLY IMPORTANT ON KEY OR EXTREME POSES, AS IN-BETWEENS TEND TO BE WEAKER.

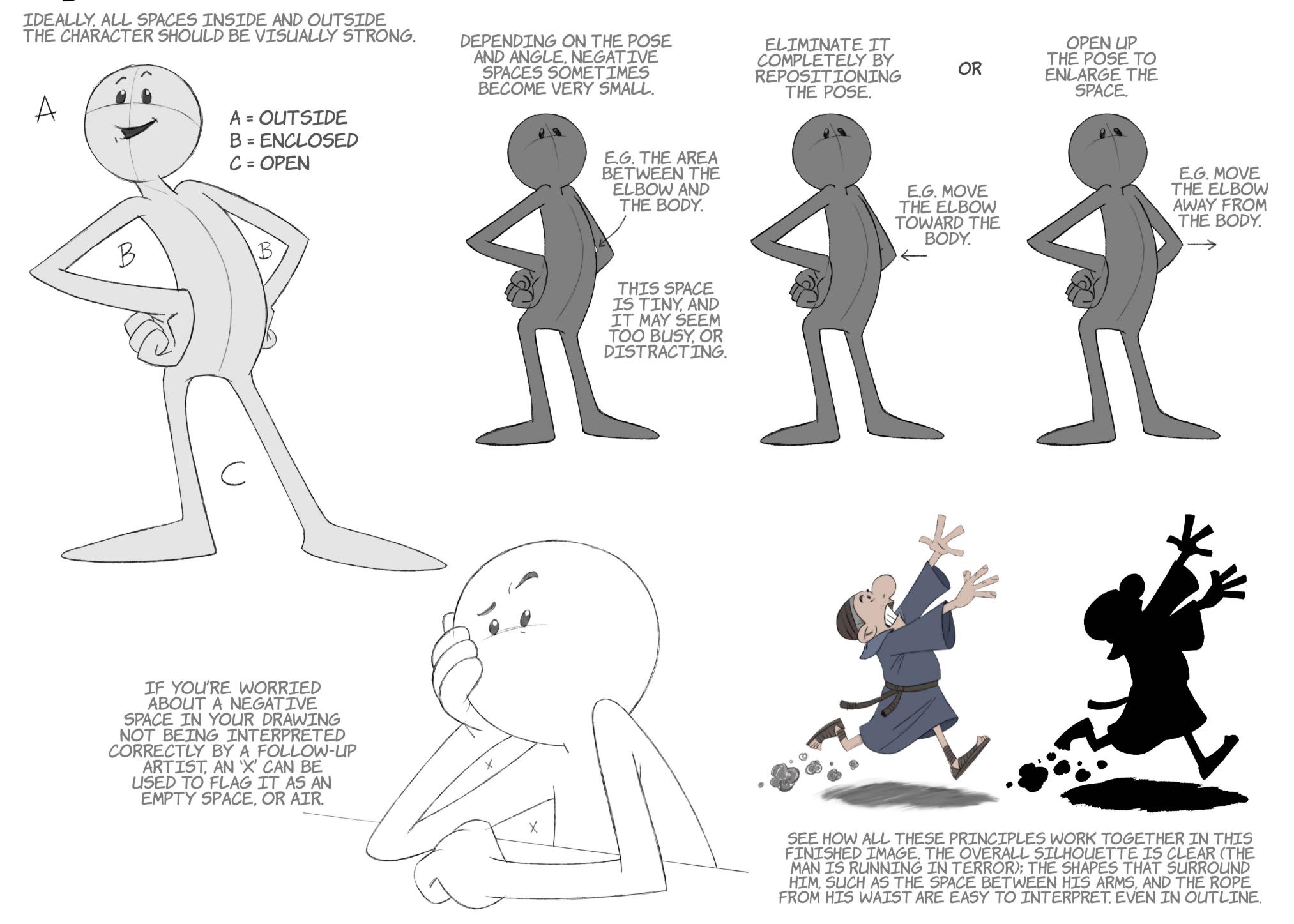


THE STRONGER THE SILHOUETTE, THE EASIER IT IS TO READ THE POSE.

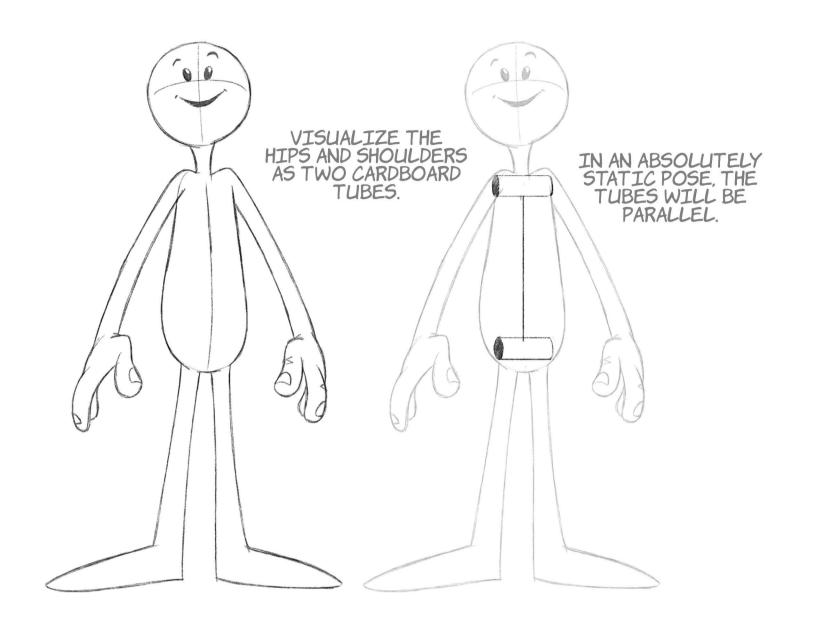


SOME POSES ARE JUST HARDER TO CONVEY WITH SILHOUETTES. STILL, DO YOUR BEST!

#### 02\_02: NEGATIVE SPACES

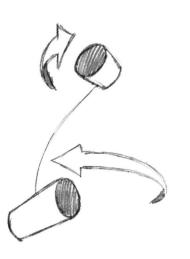


#### 02\_03: COUNTERPOSE / TORQUE



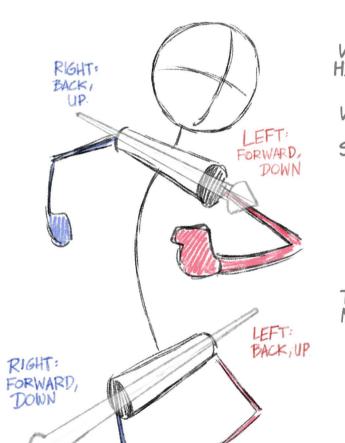


THE BODY IS RARELY IN SUCH A STATIC STATE THOUGH. EVEN THE SLIGHTEST ACTION WILL PUSH THE SHOULDERS AND HIPS OUT OF THIS ALIGNMENT.



THIS GIVES THE POSE A FEELING OF MOTION AND DYNAMISM. THE STATUES OF MICHELANGELO ARE

EXCELLENT EXAMPLES.

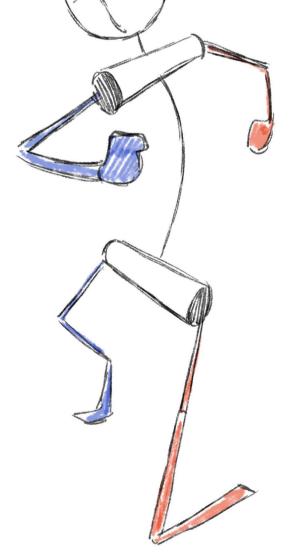


THIS IS CRITICAL IN WALKS AND RUNS, WHERE HIPS AND SHOULDERS ARE IN 'COUNTERPOSE'.

WHEN THE RIGHT HIP IS FORWARD, THE RIGHT SHOULDER IS BACK, AND VICE VERSA.

WHEN THE LEFT HIP IS UP, THE LEFT SHOULDER IS DOWN, AND VICE VERSA.

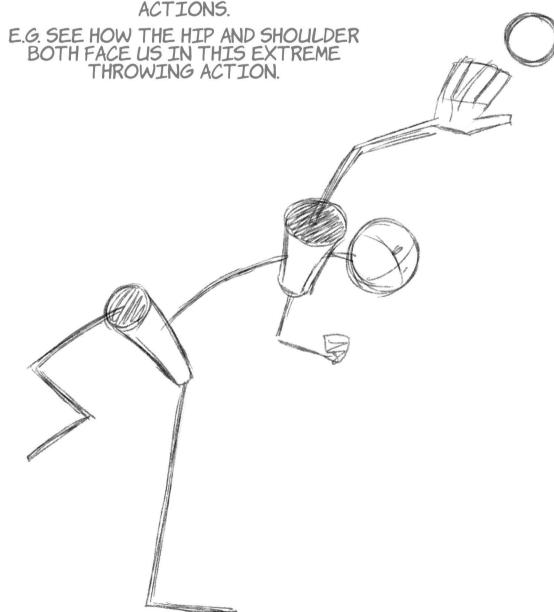
THIS IS HOW THE BODY MAINTAINS BALANCE, BY DISTRIBUTING ITS WEIGHT EVENLY.

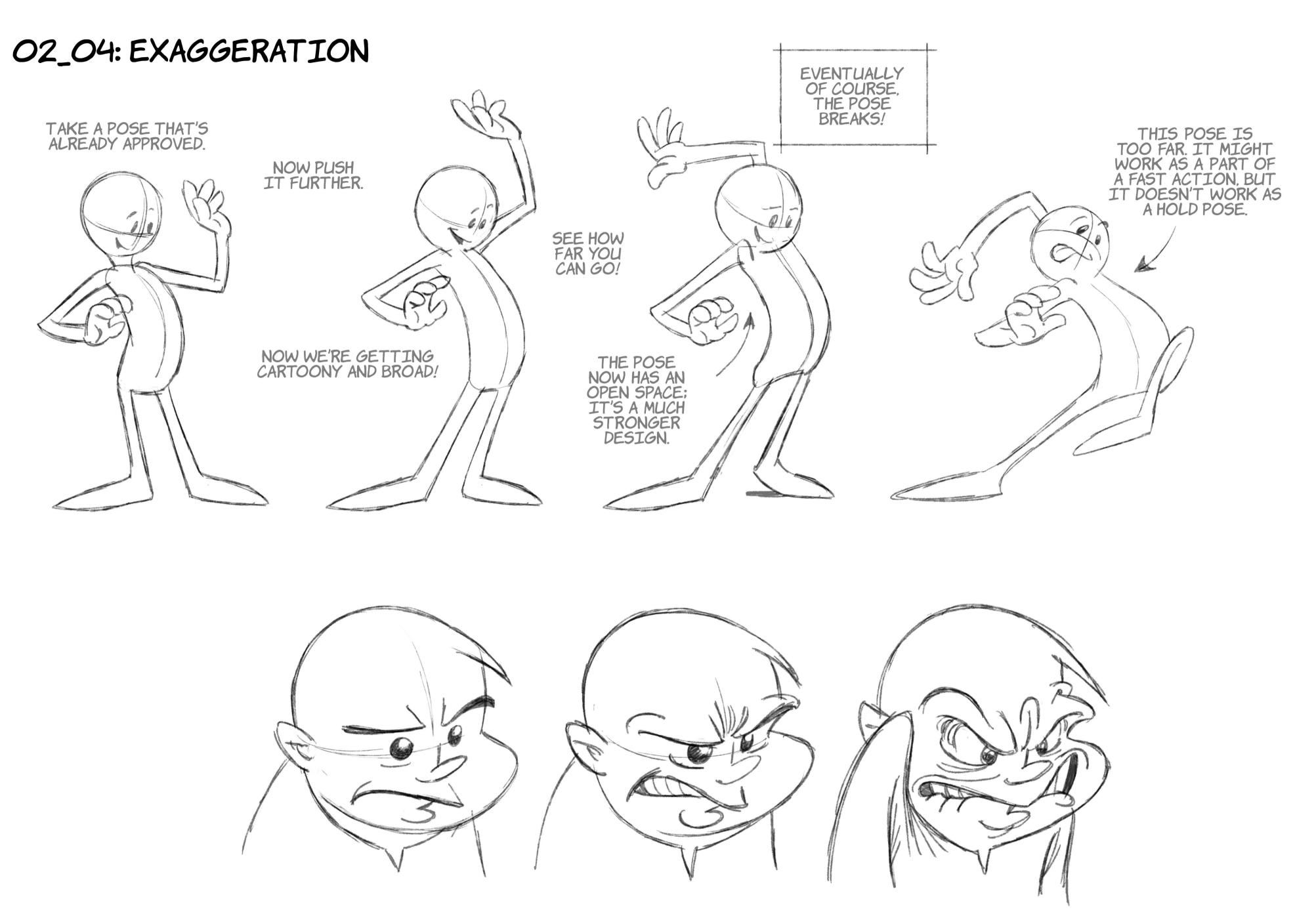


THIS CAN BE USED TO ADD A SENSE OF MOVEMENT, EVEN TO STANDING POSES!

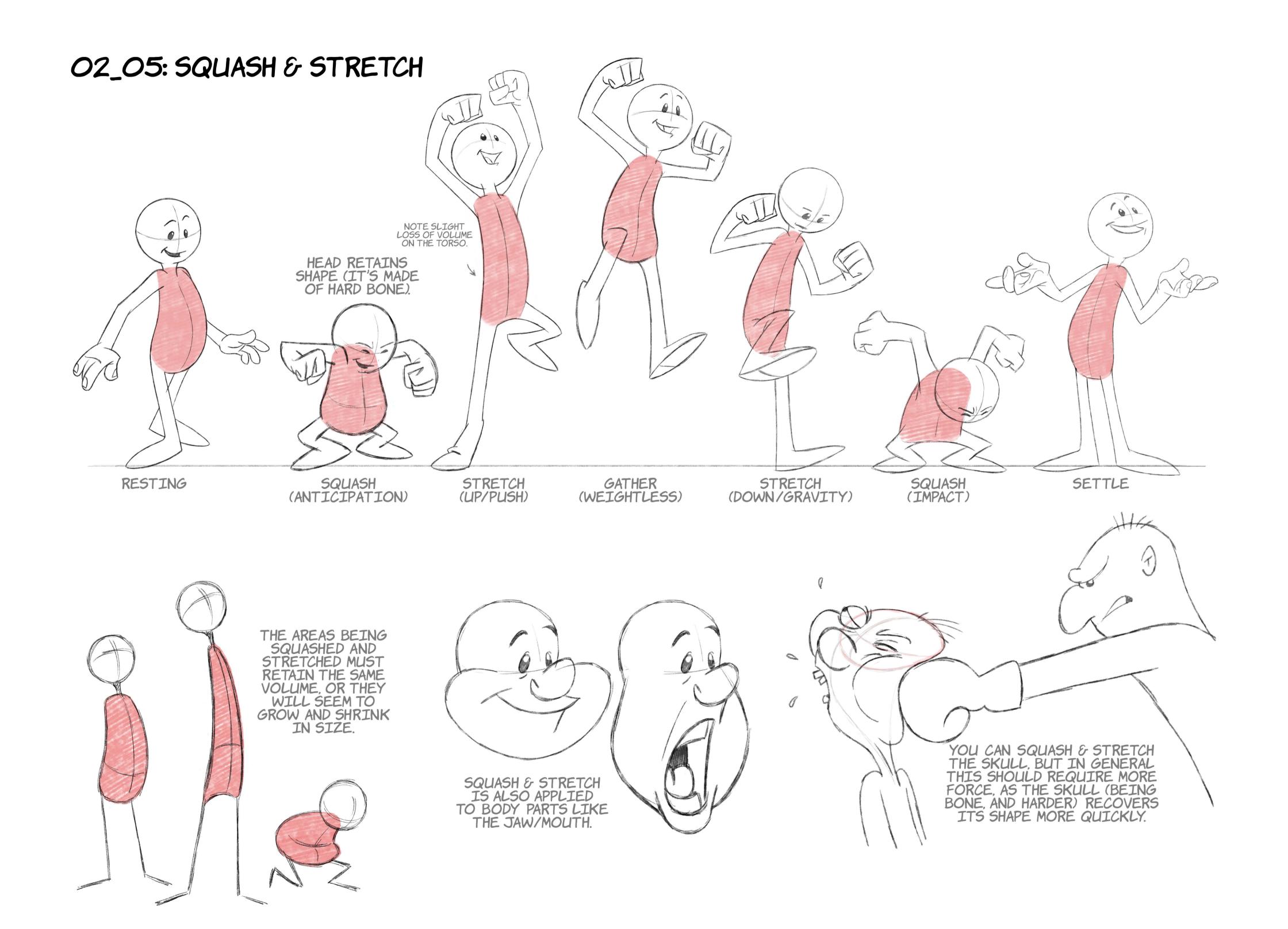


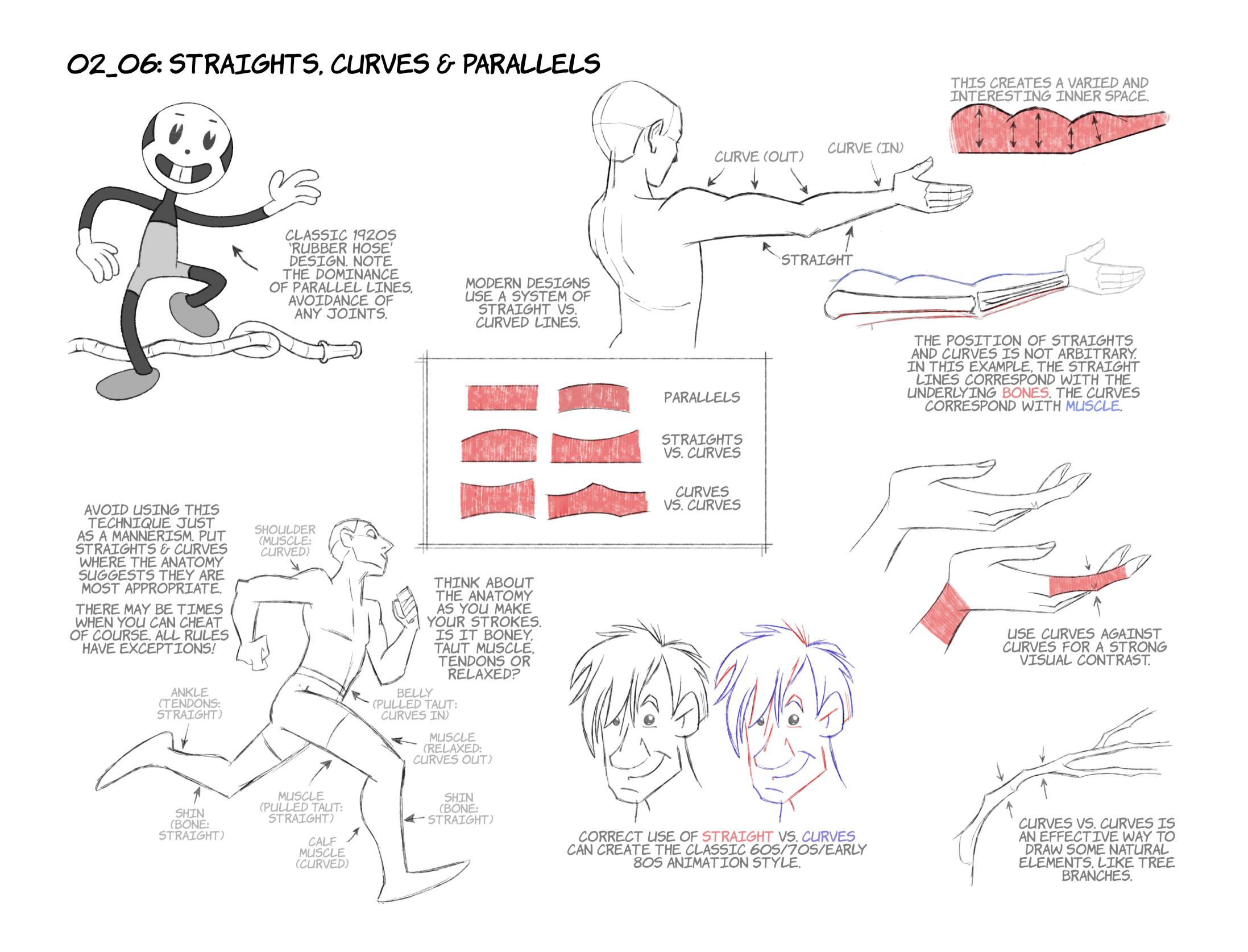
WHILE COUNTERPOSE IS NECESSARY IN WALKS AND RUNS, SIMPLE TORQUE (OR TWIST) IS ENOUGH FOR MANY ACTIONS.





DON'T FORGET! THIS ALSO APPLIES TO FACIAL ACTING!



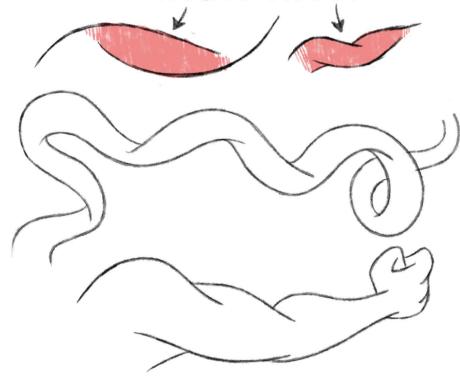


#### 02\_06: STRAIGHTS, CURVES & PARALLELS

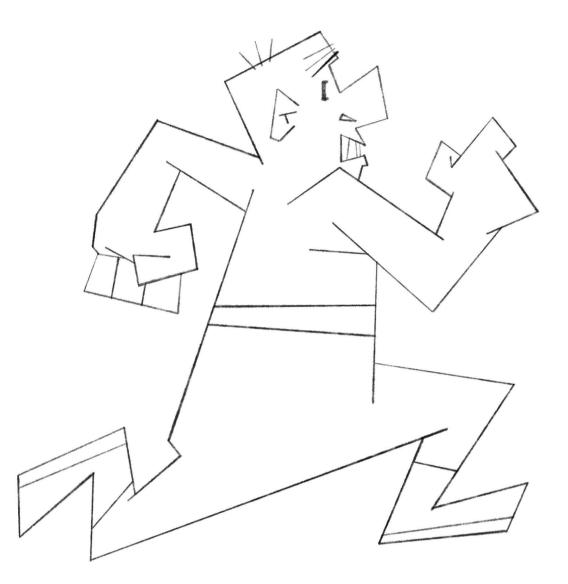
DESIGNS CAN BE MADE FROM CURVES ALONE.



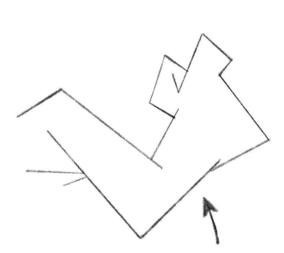
NOTE HOW THE CURVED LINES ARE SPACED: THEY OVERLAP, WHICH CREATES A VARIED SHAPE.



BY VARYING THE ROUNDNESS OF THE CURVES, YOU CAN CREATE SOMETHING MUCH MORE INTERESTING THAN A'RUBBER HOSE' LINE. DESIGNS CAN BE MADE FROM STRAIGHTS ALONE.



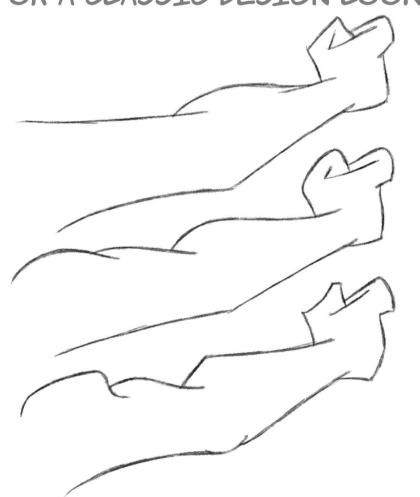
THE OTHER EXTREME IS STRAIGHTS ONLY. A VERY AUSTERE, GRAPHIC LOOK, EXTREMELY STYLIZED.



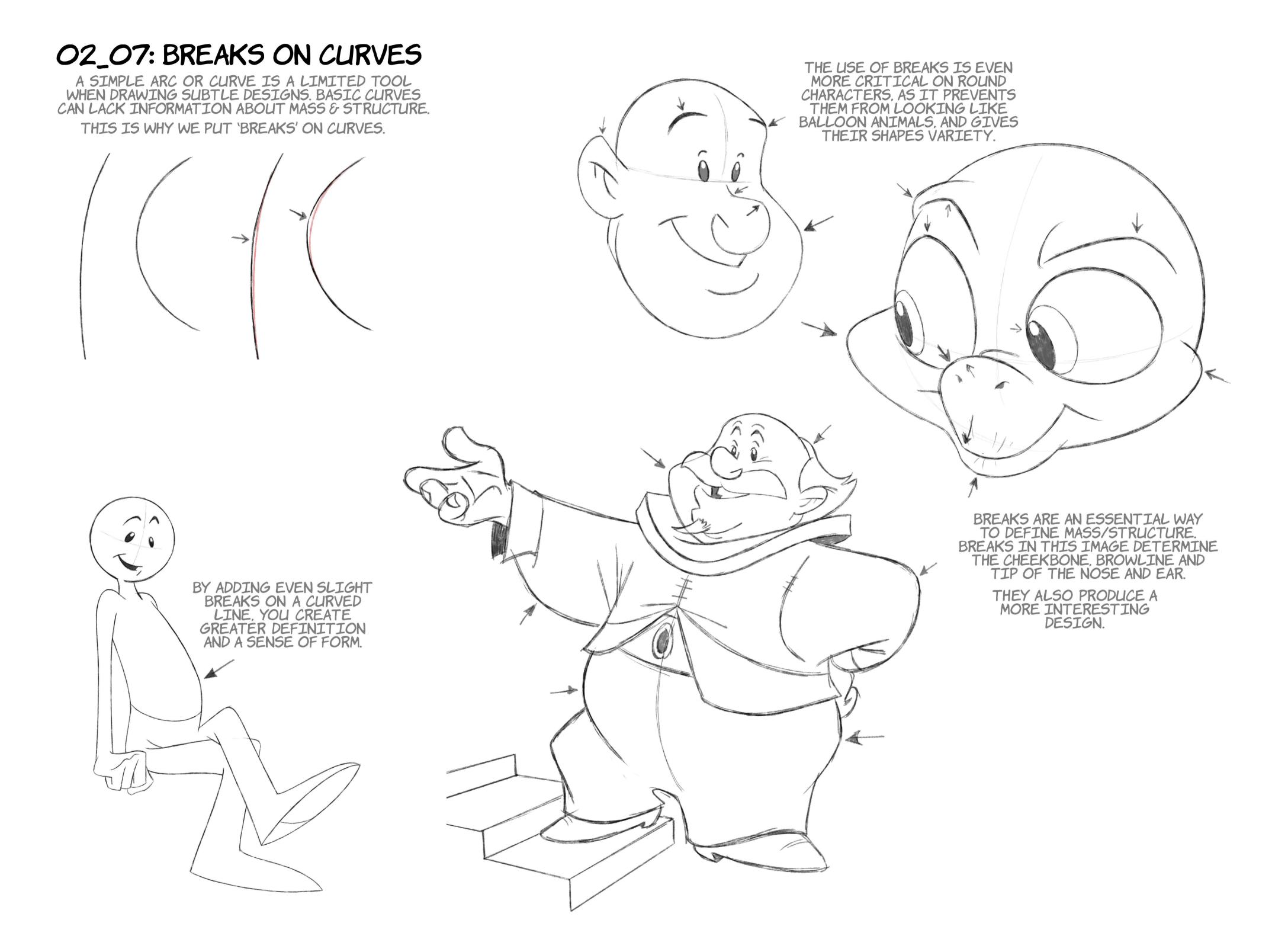
IF WORKING WITH STRAIGHTS, IT'S STILL IMPORTANT TO AVOID PARALLEL LINES. KEEP THE SHAPES VARIED. DESIGNS CAN BE MADE FROM BOTH TOGETHER.



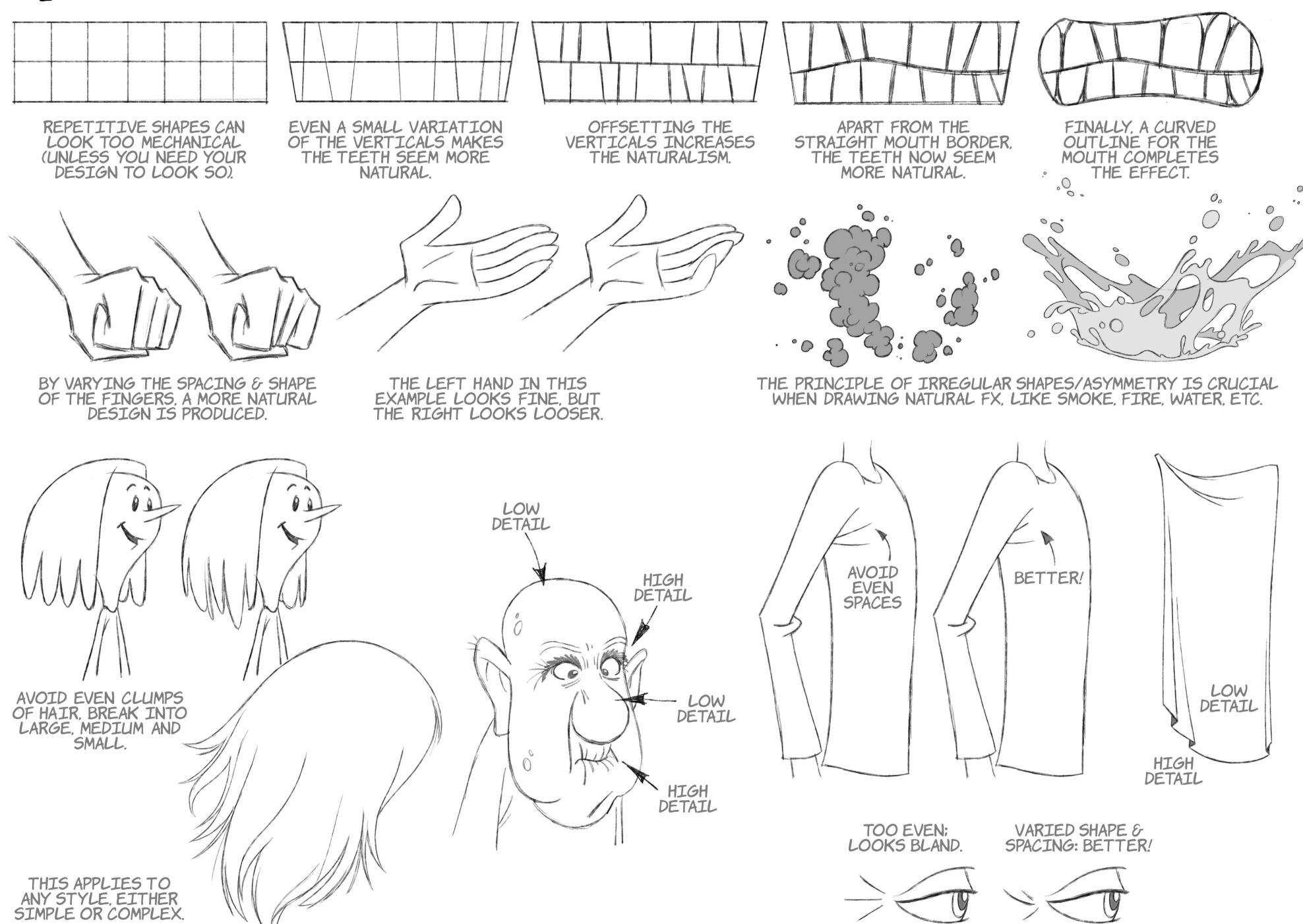
THE MOST FLEXIBLE STYLE IS TO USE BOTH TOGETHER. PLACE STRAIGHTS AGAINST CURVES FOR A CLASSIC DESIGN LOOK.

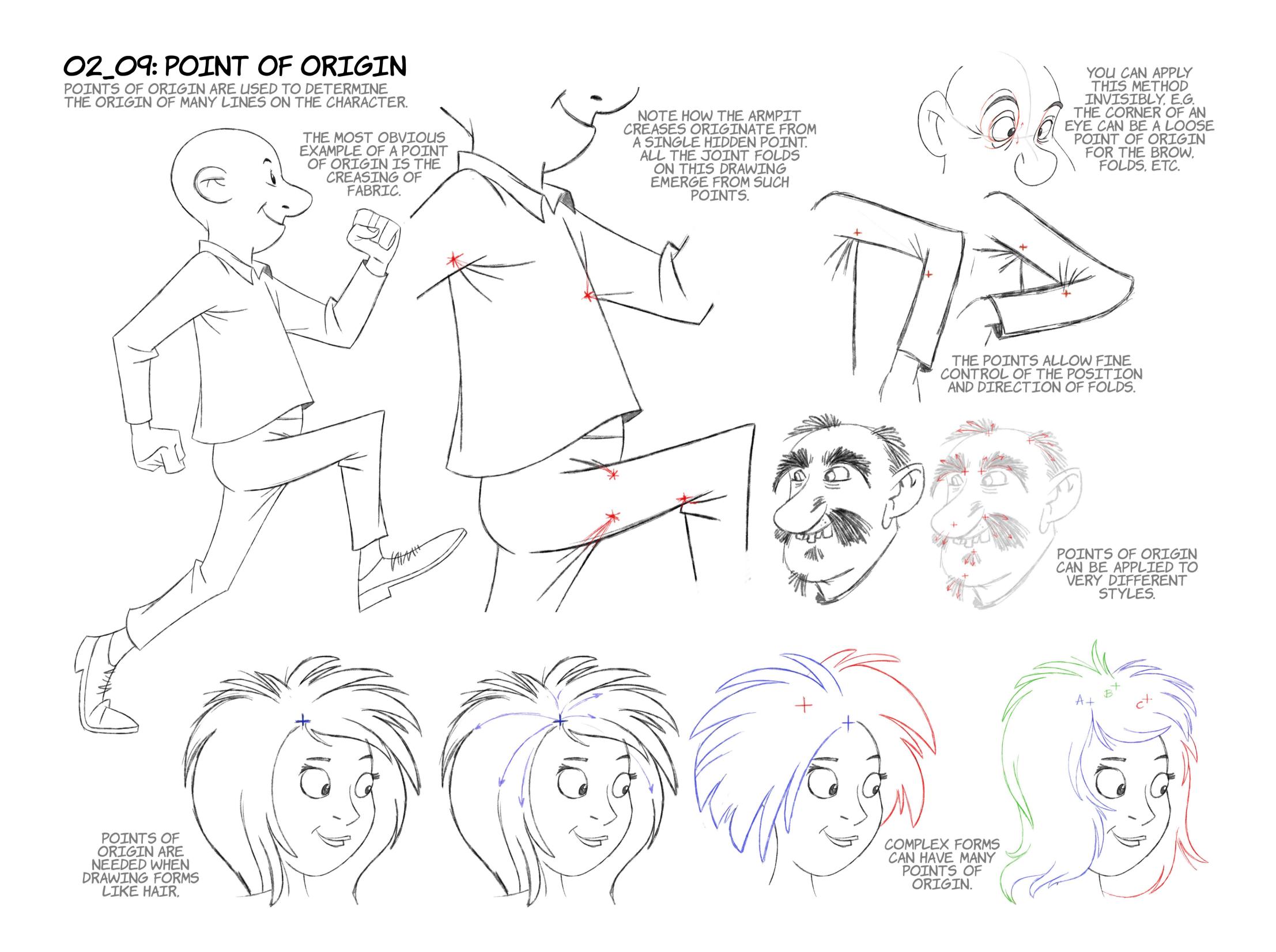


DRAWINGS DON'T HAVE TO BE 50/50 CURVED/STRAIGHT; APPLY VARIATIONS AS NEEDED.



#### 02\_08: VARY SHAPES, ASYMMETRY & TEXTURE





#### 02\_10: OPEN & CLOSED AREAS

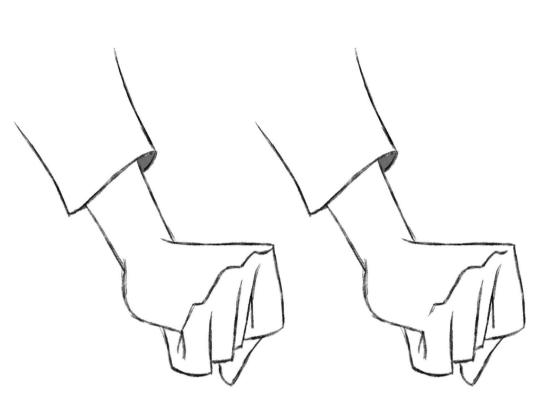
LEAVING OPEN SPACES TO MAKE THE DESIGN DIMENSIONAL.



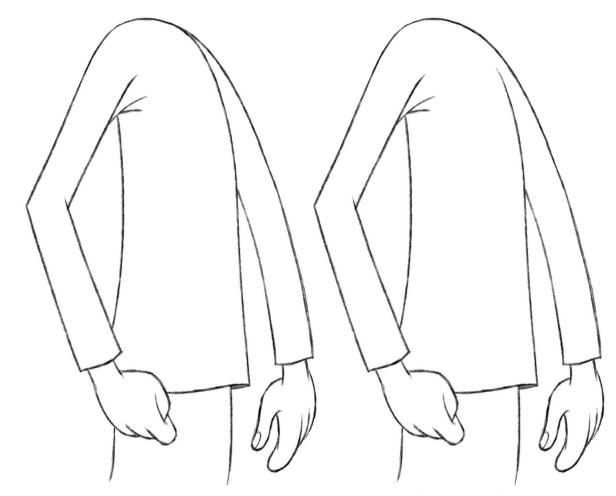
COMPLETELY CLOSING OFF AN AREA FLATTENS IT. E.G. THE JAWLINE ENCLOSES THE FACE.



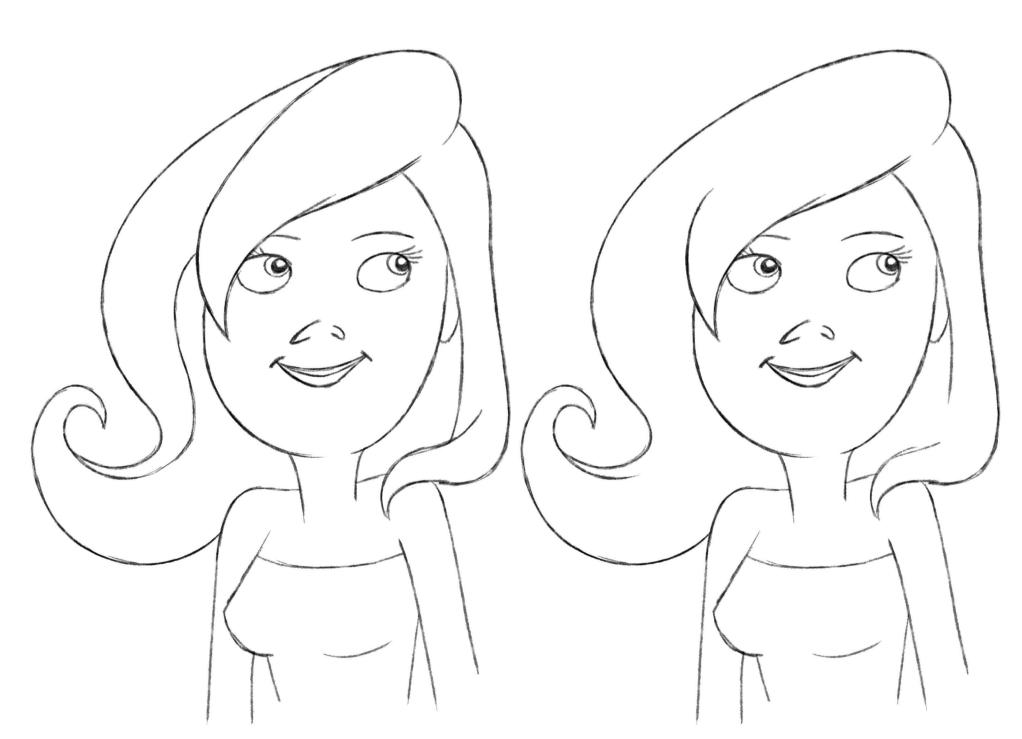
BY LEAVING IT OPEN, THE FACE FEELS MORE ROUND & DIMENSIONAL.



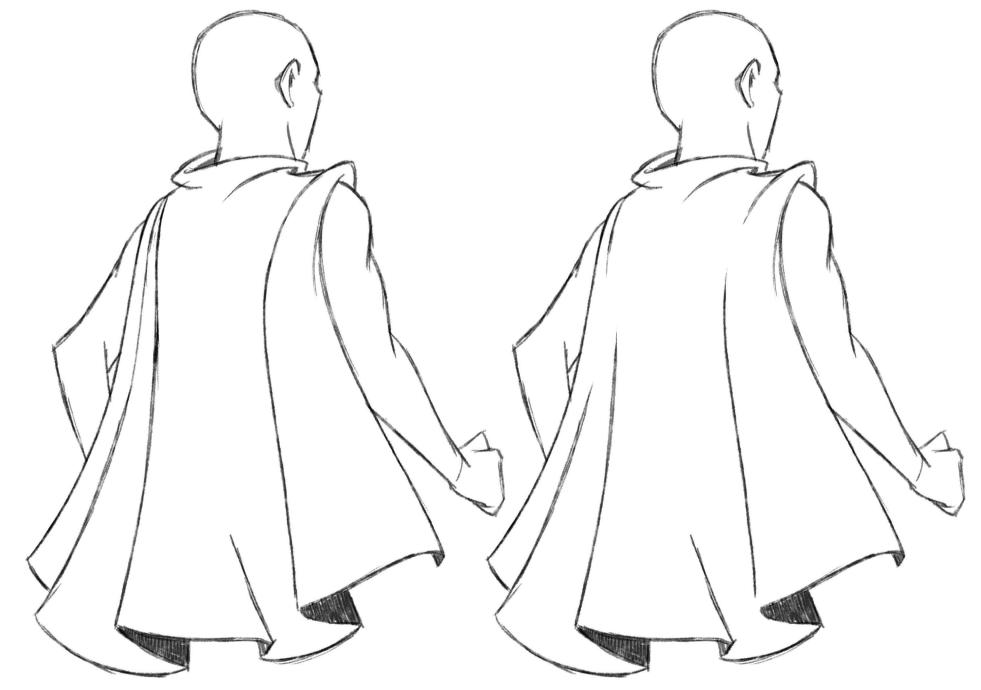
THE KNUCKLE LINE IN OPEN & CLOSED STATES.



KEEP SPACES OPEN FOR A MORE CLASSIC LOOK. FLATTEN THEM FOR A STYLIZED EFFECT.

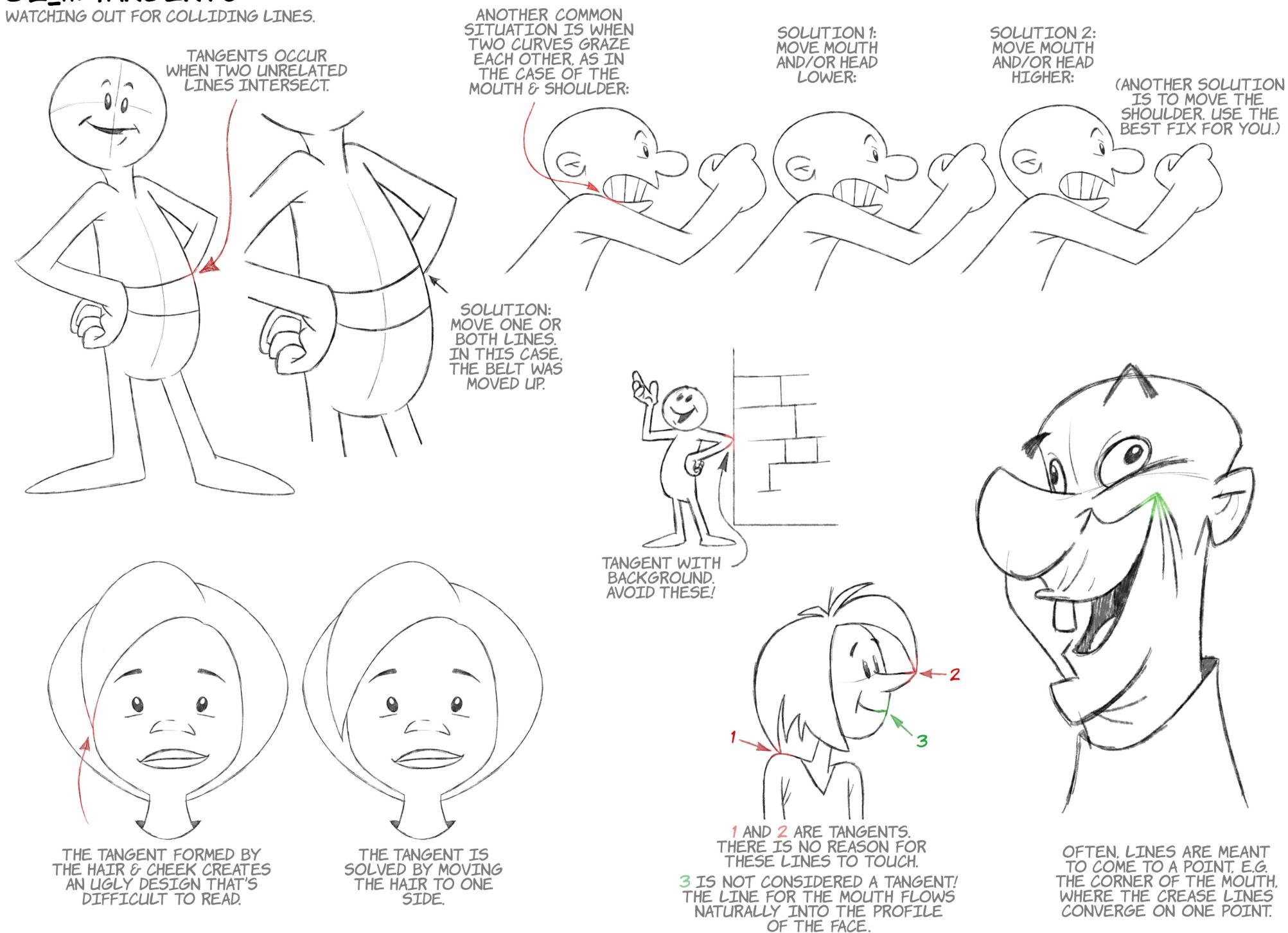


THERE MAY BE TIMES WHEN YOU WANT TO CLOSE OFF AREAS IF THAT'S A PART OF THE LOOK YOU'RE TRYING TO ACHIEVE. BUT BE SURE YOU DO THIS KNOWINGLY, AND NOT ACCIDENTALLY.



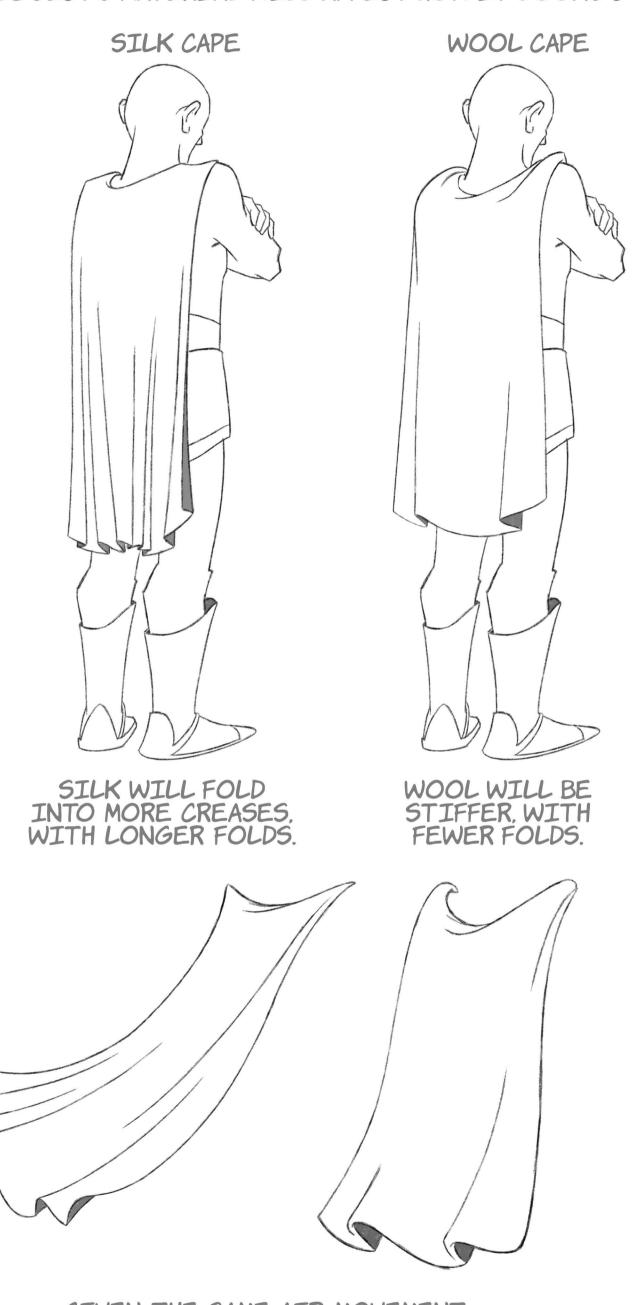
IT'S ALSO USEFUL TO KEEP SHAPES OPEN WHEN DRAWING CLOTHING OR FABRIC. RULE OF THUMB: UNLESS THERE'S NO CHOICE OR A NEED, TRY TO KEEP SHAPES OPEN, SO THAT THEY FLOW INTO EACH OTHER.

#### 02\_11: TANGENTS

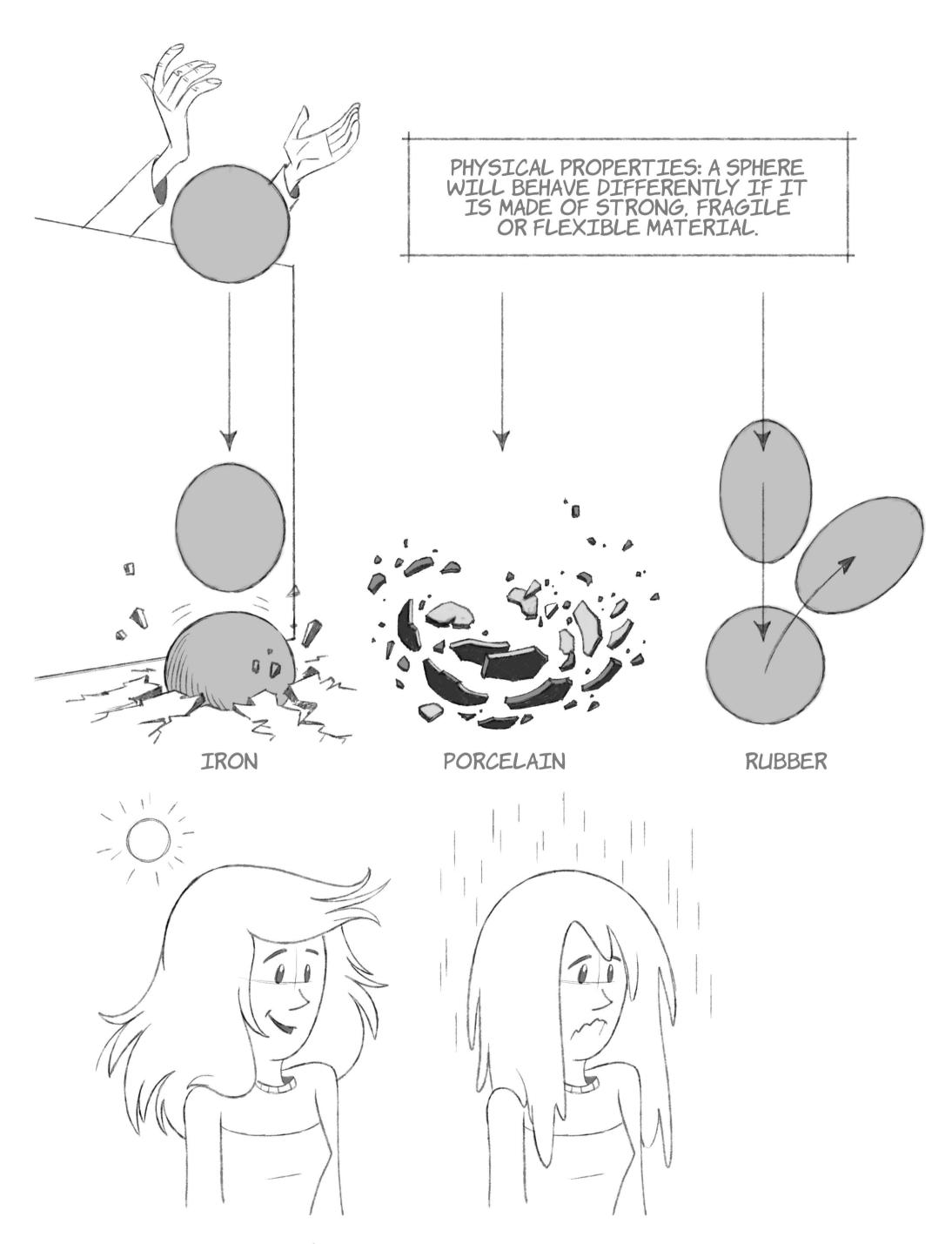


## 02\_12: MATERIALS & DRAG

AN OBJECT'S MATERIAL WILL AFFECT HOW IT LOOKS & MOVES.



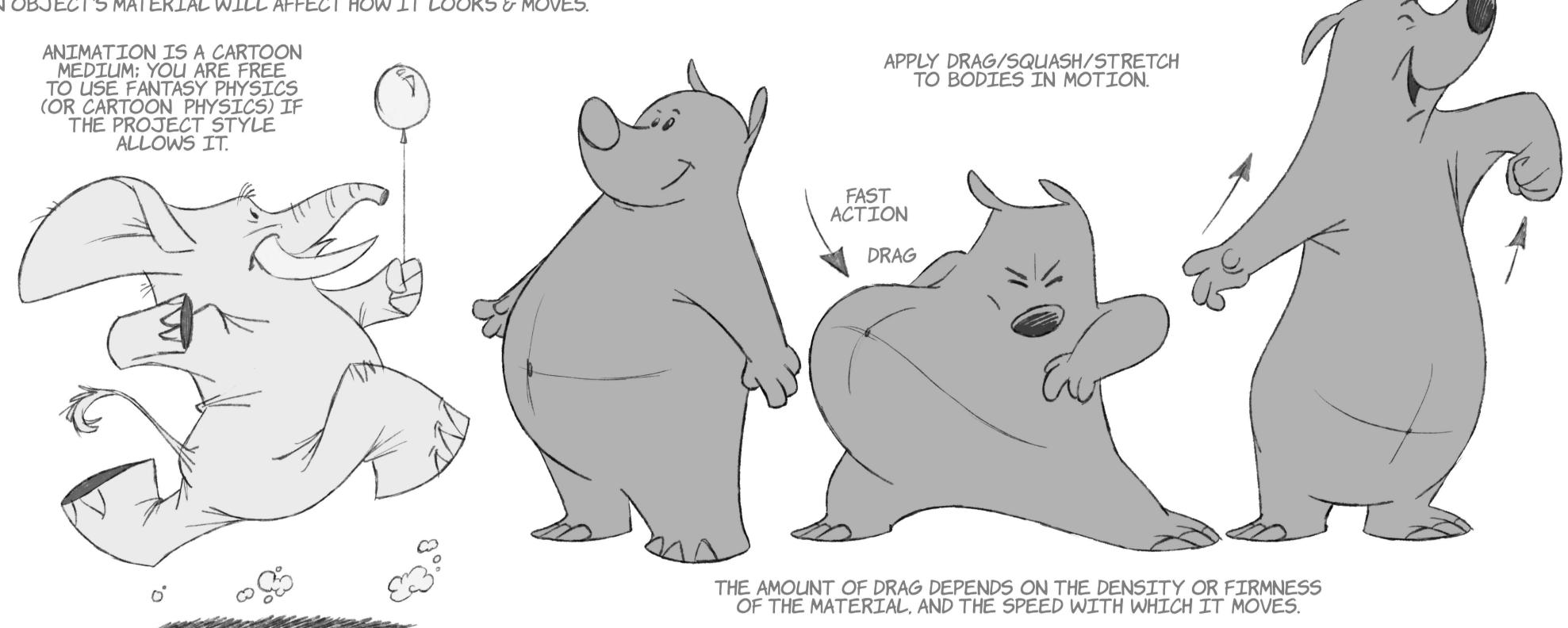
GIVEN THE SAME AIR MOVEMENT, THE LIGHTER MATERIAL WILL MOVE FURTHER. IT MAY ALSO BE QUICKER TO MOVE, BUT TAKE LONGER TO SETTLE.

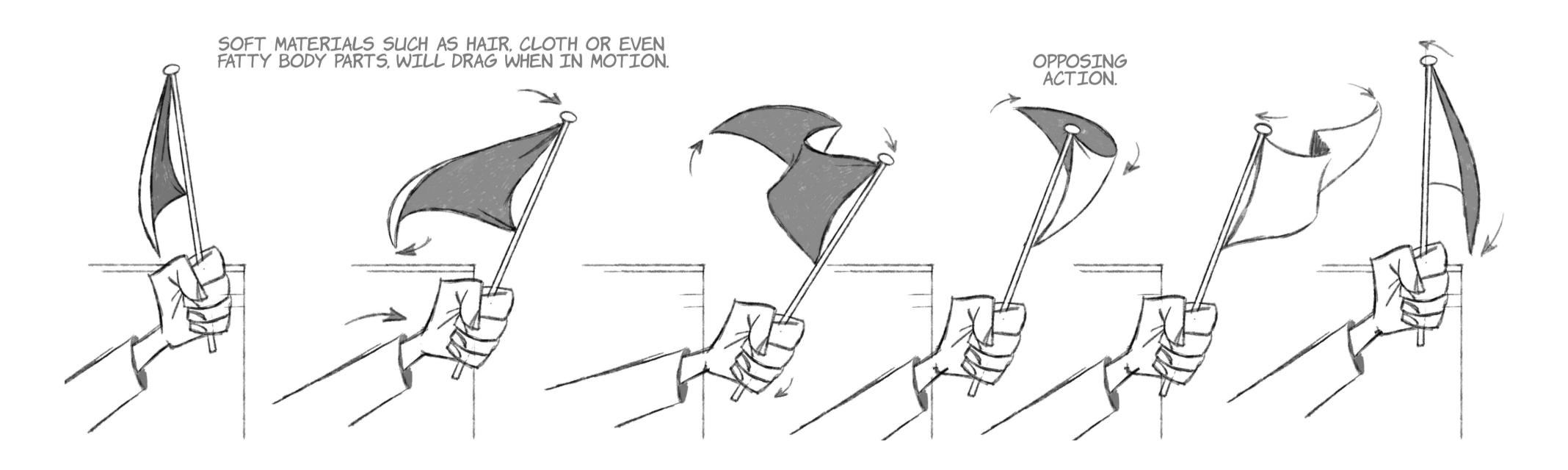


A MATERIAL'S APPEARANCE WILL ALTER IF THE ENVIRONMENT CHANGES.

## 02\_12: MATERIALS & DRAG

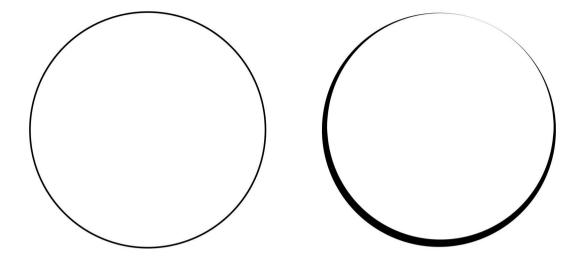
AN OBJECT'S MATERIAL WILL AFFECT HOW IT LOOKS & MOVES.





#### 02\_13: LINE WEIGHT

CONVEY VOLUME WITH LINE THICKNESS.



YOU AREN'T DRAWING LINES, YOU'RE DRAWING VOLUMES. HTS CAN BE CONVEYED BY VARYTN

THIS CAN BE CONVEYED BY VARYING THE THICKNESS AND/OR DARKNESS OF THE LINE.

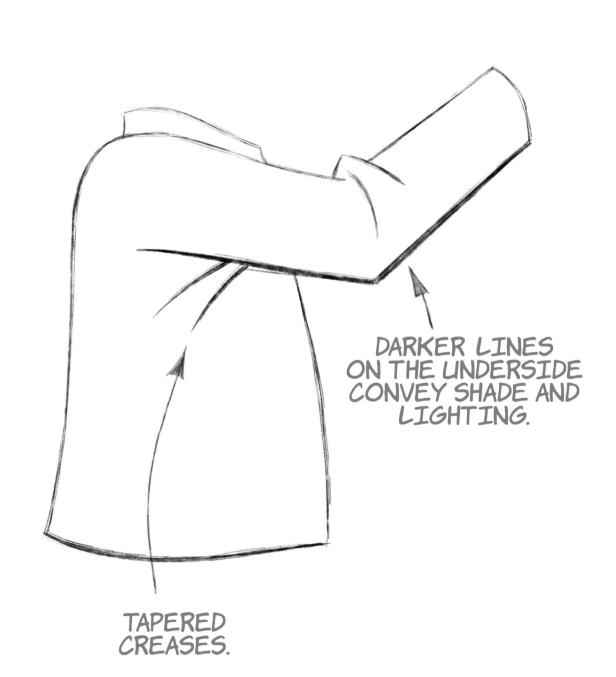
IN THE SPHERE ON THE RIGHT, THE HEAVIER LINE AT THE BASE CONVEYS LIGHT & VOLUME.

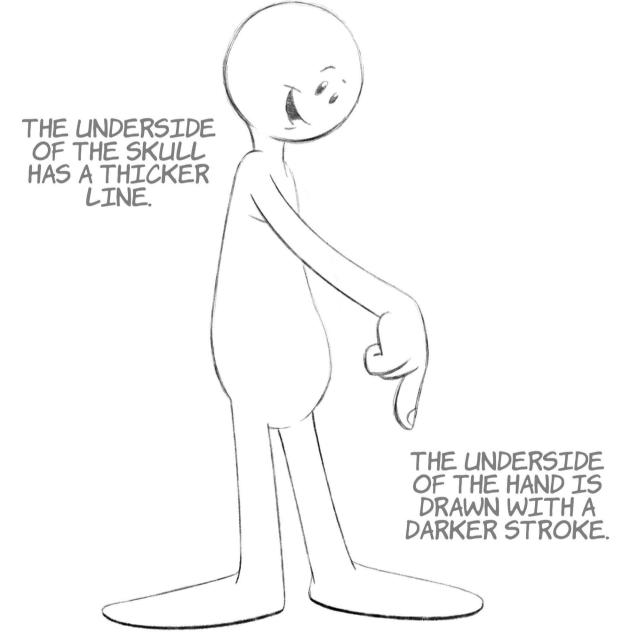


TAPERED LINES ARE A
SUBTLE EFFECT, BUT A
GOOD TECHNIQUE TO
KEEP DRAWINGS LOOKING
NATURAL. A PERFECTLY
STRAIGHT LINE CAN
LOOK TOO MECHANICAL.



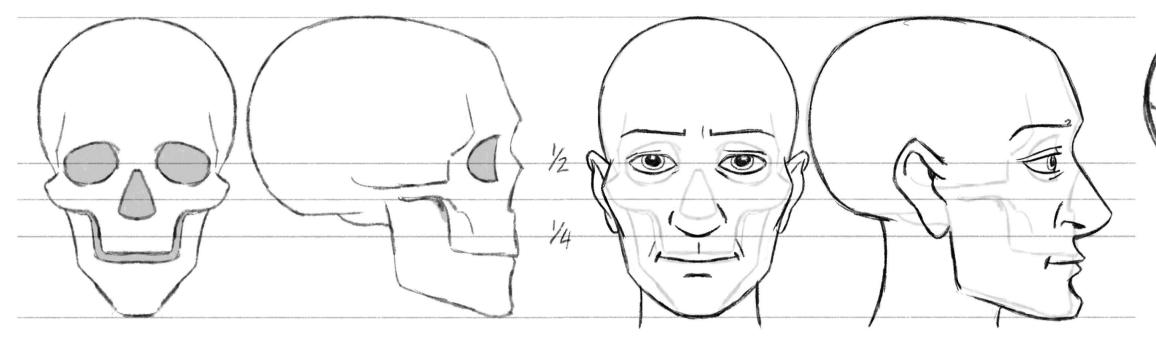






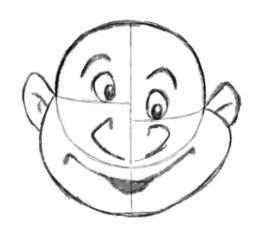
THIS IS EFFECTIVE ON THE SOLES OF FEET.

## 03\_01: ANATOMY



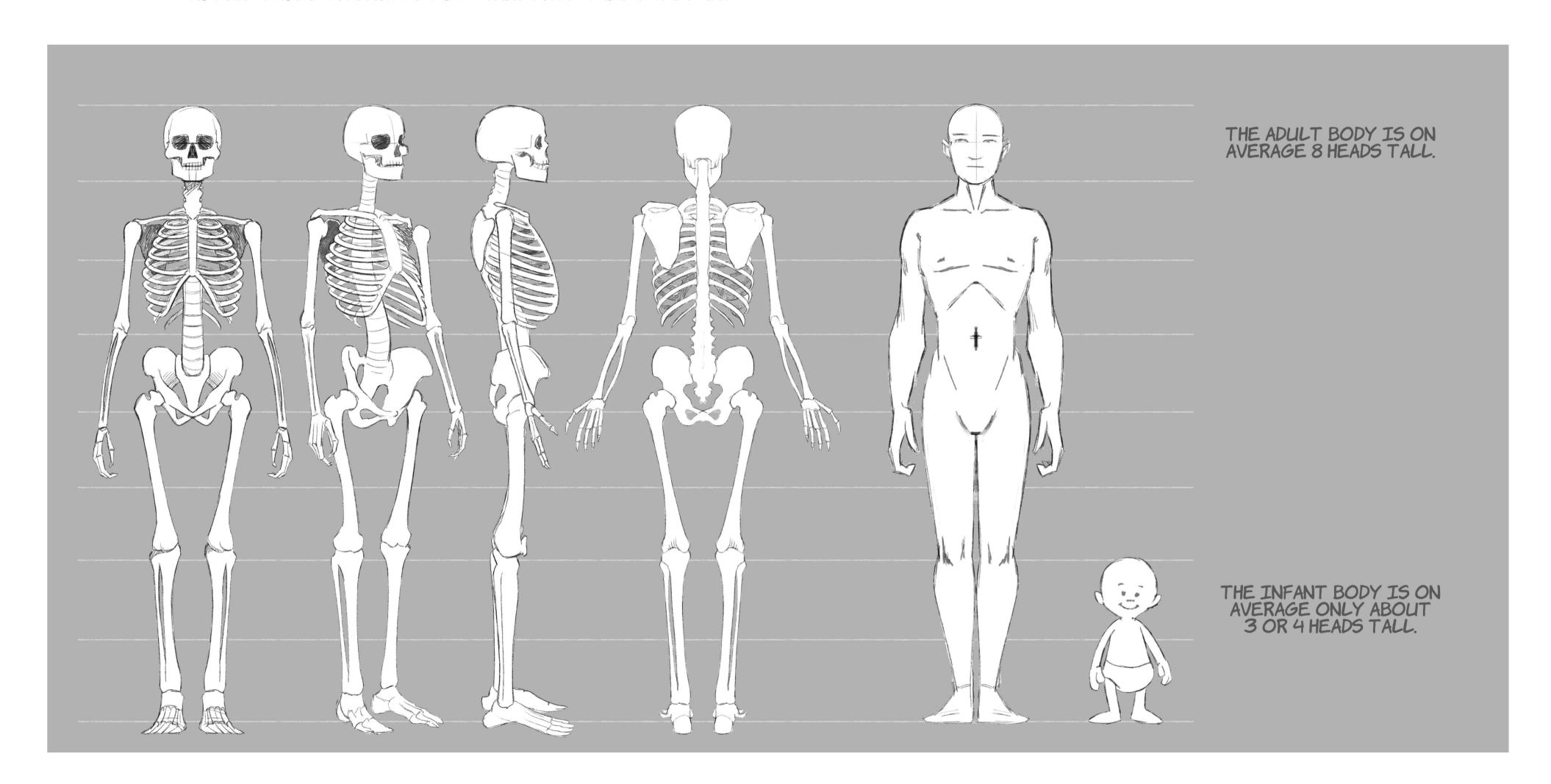


A 1/2 EYELINE IS USEFUL IF A LARGE FOREHEAD IS NEEDED. IT'S ALSO USEFUL WHEN DRAWING BABIES.



THESE ARE TWO OF THE MORE COMMON EYELINE POSITIONS.

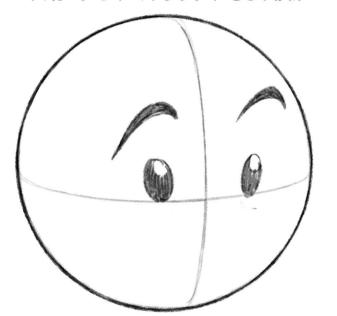
THESE PROPORTIONS OF THE SKULL ARE AN IDEAL, OR AN AVERAGE.
ACTUAL FACES OR SKULLS WILL VARY FROM THIS SOMEWHAT



#### 03\_02: INTRODUCTION TO DRAWING EYES

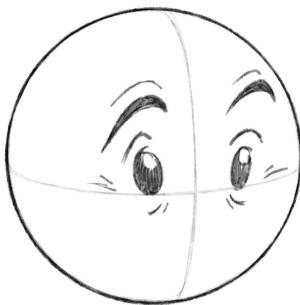
THE MOST IMPORTANT FACIAL FEATURE TO MASTER.

THE DOT (TEDDY BEAR).



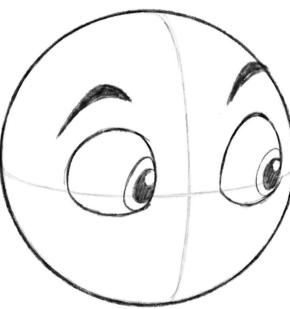
EYELINE & CENTERLINE. FIX THE EYE POSITION, THIS SIMPLE LOOK HAS GREAT APPEAL.

THE DOT (DETAILS).



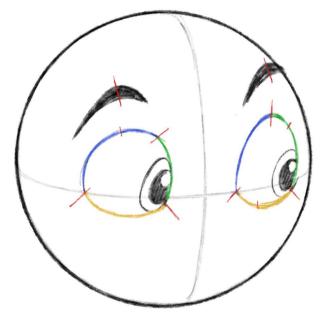
CREASES ADD AGE AND PERSONALITY. NOTE THE ABSENCE OF EYE WHITES.

CLASSIC EYES.



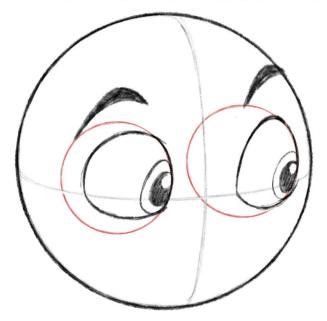
THIS IS THE CLASSIC CARTOONY EYE STYLE.

BREAKS ON CURVES.

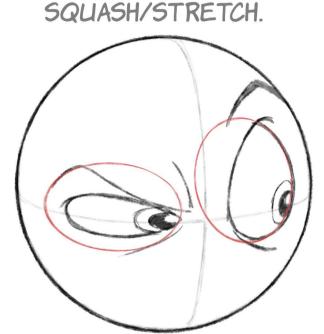


THESE LOOK SOLID BECAUSE OF BREAKS IN THE CURVES (RED). THIS DEFINES THE FORM OF THE EYES.

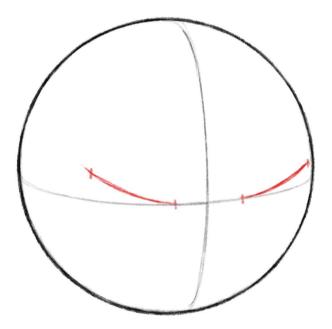
VOLUME CONSTRUCTION.



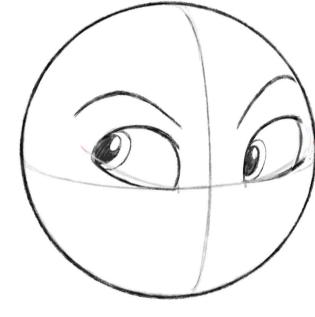
DRAW VOLUMES, NOT LINES! EYE VOLUMES ARE IN RED. DON'T DRAW THEM, JUST REMEMBER THEY EXIST.



THE EYE SPHERES DETERMINE THE CURVE OF THE EYE EDGES & SHAPE OF THE LIDS.

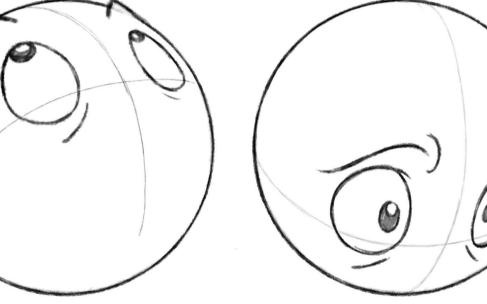


ALMOND SHAPED EYES CONVEY FEMININITY. PUSH THE OUTER EDGES UP FROM THE EYELINE.

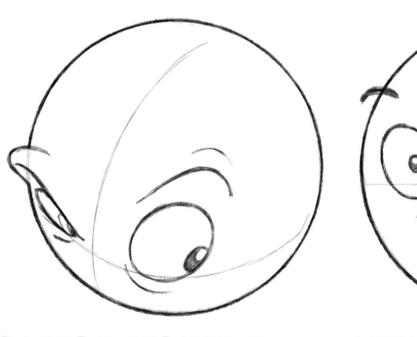


NOTE THE BREAKS ON THE CURVES.

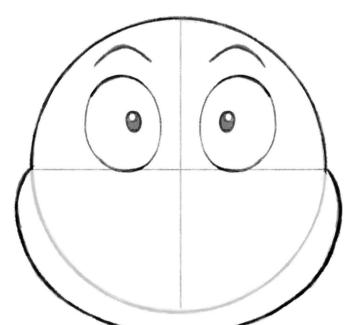




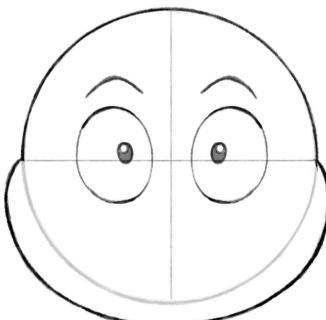
VARY THE SHAPES OF THE LEFT AND RIGHT EYES FOR A STRONGER DESIGN. EVEN A SMALL VARIATION IN THE SIZE OR SHAPE OF THE EYES WILL MAKE THE CHARACTER MORE LIFELIKE.



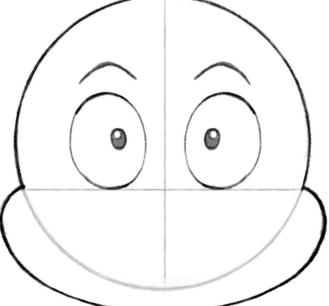
KEEP EYES SLIGHTLY CROSSEYED, OR THEY CAN LOOK SPACED OUT.



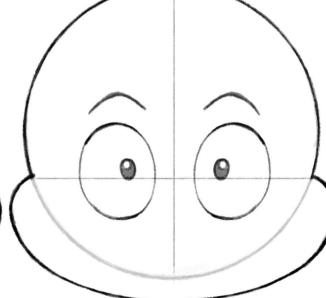
THE EYELINE CAN BE POSITIONED AT THE EYELINE WITH THE EYES RESTING ON IT.



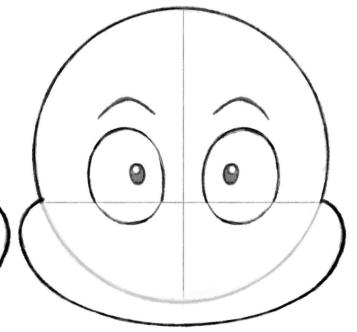
WITH THE SAME EYELINE, THE EYES CAN BE POSITIONED SO THAT THEY ARE BISECTED BY IT.



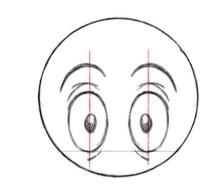
THE EYELINE CAN BE POSITIONED 2/3 UP OR DOWN THE SKULL. THIS WILL CHANGE THE SHAPE OF THE JAW.



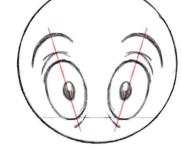
THE EYES CAN BE LOWERED SO THAT THEY ARE BISECTED BY THE EYELINE.



IF NEEDED, THE CORNER POINT OF THE EYES CAN BE 1/3 OR 1/4 FROM THEIR BASE, CREATING YET ANOTHER VARIATION.



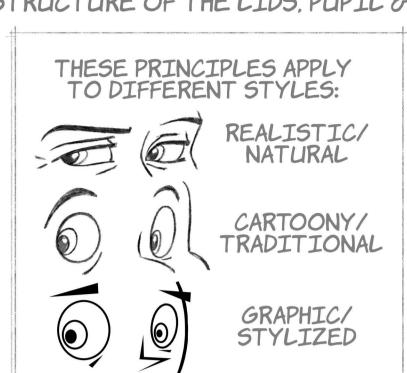
EYES CAN BE ON A VERTICAL AXIS...

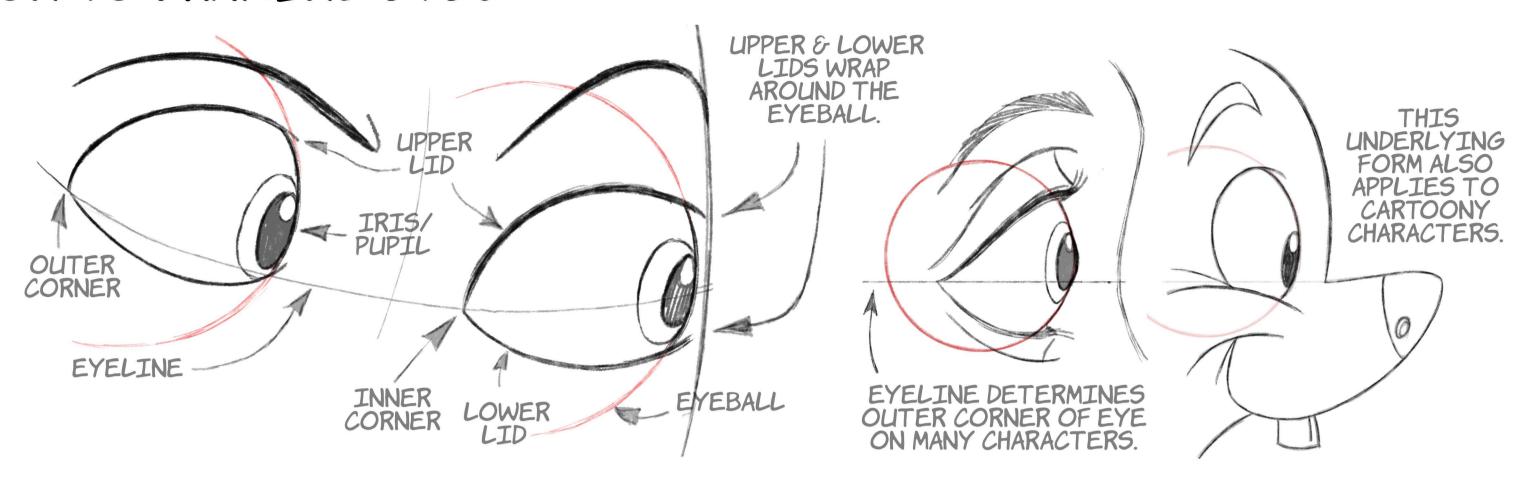


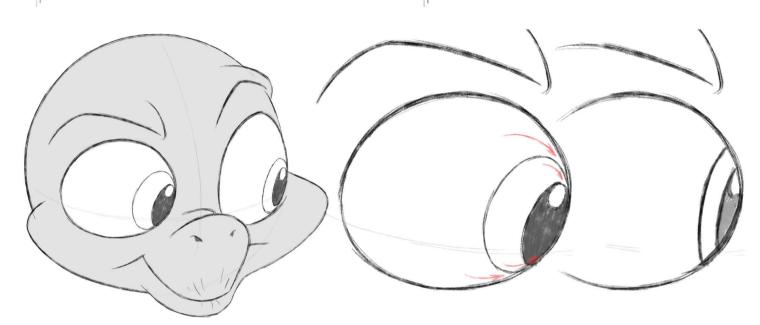
OR A DIAGONAL.

#### 03\_02: INTRODUCTION TO DRAWING EYES

STRUCTURE OF THE LIDS, PUPIL & IRIS







DOTS/

TEDDY BEAR

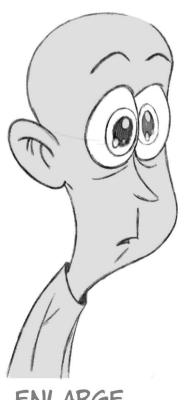
HOW TO KEEP IRIS & PUPIL FROM SEEMING FLAT:

DRAW THEM WITH A FULL ELLIPSE TO CREATE VOLUME.

DON'T CROP THE IRIS/PUPIL LIKE THIS: IT LOOKS FLAT.



REDUCE PUPILS, ENLARGE EYES FOR SURPRISE OR FEAR.



ENLARGE PUPILS AND IRIS FOR LOVE/GRIEF.



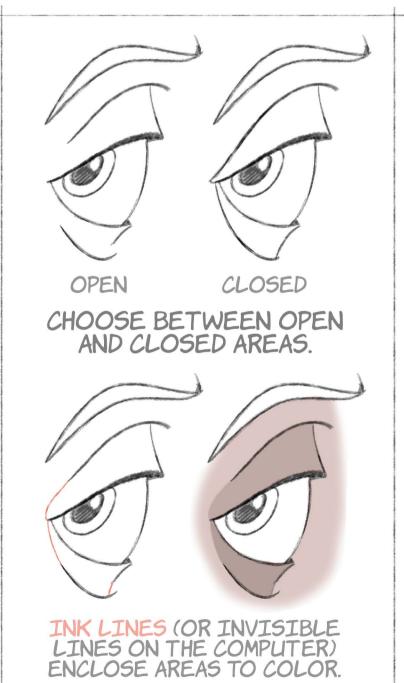
SPIRAL WITH TINY PUPILS FOR CLASSIC HYPNOSIS.



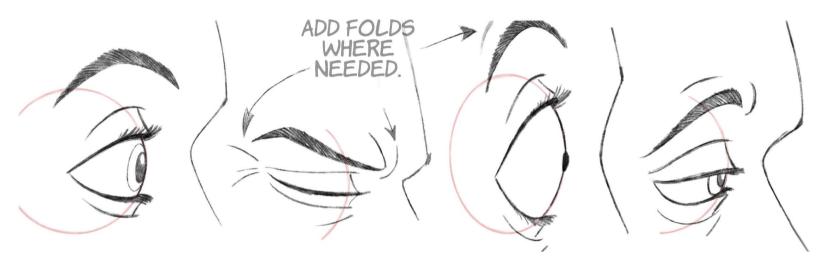
A GOOD SPACING TRICK IS TO PLACE THE EYES AN EYE'S WIDTH APART.



THIS ISN'T SET IN STONE; BUT TRY TO KEEP EYE SPACING CONSISTENT.



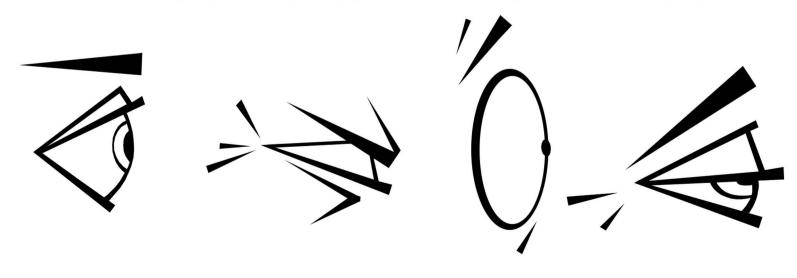
KEEP THE EYE FLEXIBLE. DON'T JUST HAVE 5 OR 6 STOCK EXPRESSIONS.



THE PRINCIPLES ALSO APPLY TO A CLASSIC 19305/405 STYLE EYE:



AN EXTREMELY LIMITED GRAPHIC EYE DESIGN CAN HAVE FLEXIBILITY:



#### 03\_03: EYEBLINKS & BROWS



IMAGINE AN INVISIBLE MASK AROUND THE EYE AREA. THIS WILL HELP YOU TO DISTORT THE EYE AREA WHILE KEEPING IT COHERENT.

THE SIMPLEST BROW IS THE SINGLE LINE. EVEN THIS BASIC FORM IS CAPABLE OF GREAT EXPRESSION.

#### EYE BLINKS





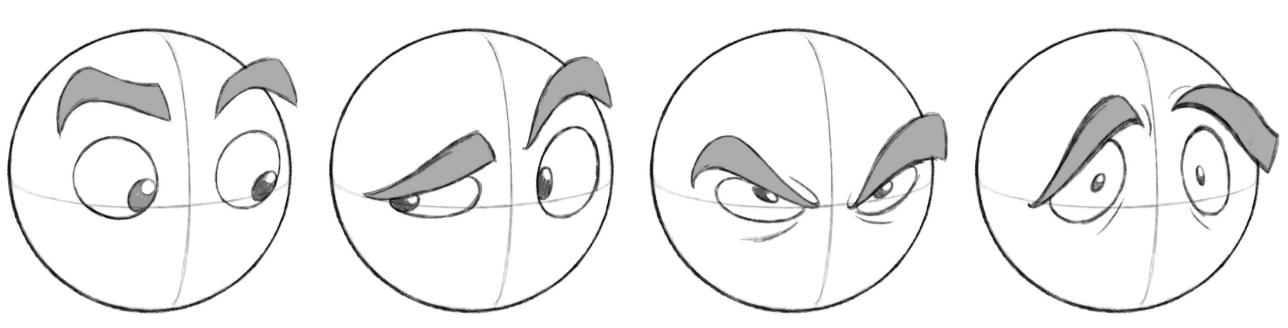




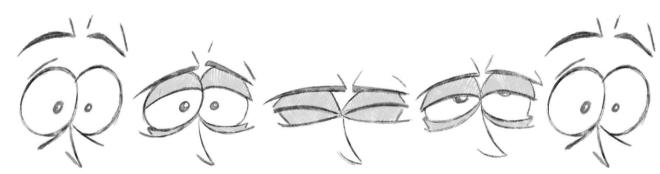


1/3 OPEN

THE BROWS DON'T MOVE, ONLY THE LIDS.



BY ADDING AN UPPER STROKE, DIMENSION IS ACHIEVED.





POINTS OF ORIGIN CONTROL THE DESIGN OF BUSHY EYEBROWS (MAD SCIENTISTS, OWLS, WIZARDS).



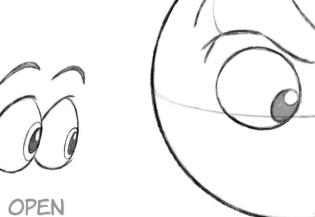


















THE RIDGE DESIGN IS USEFUL FOR DINOSAURS, CAVEMEN AND VERY MUSCULAR CHARACTERS.

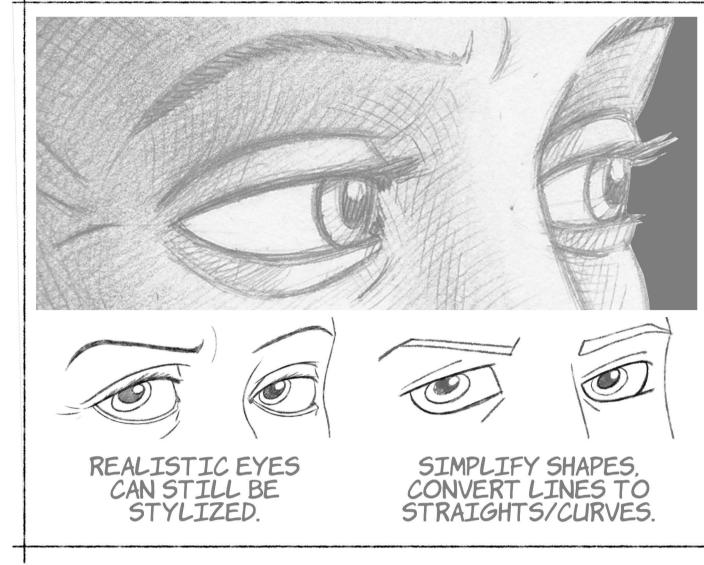
1/3 CLOSED

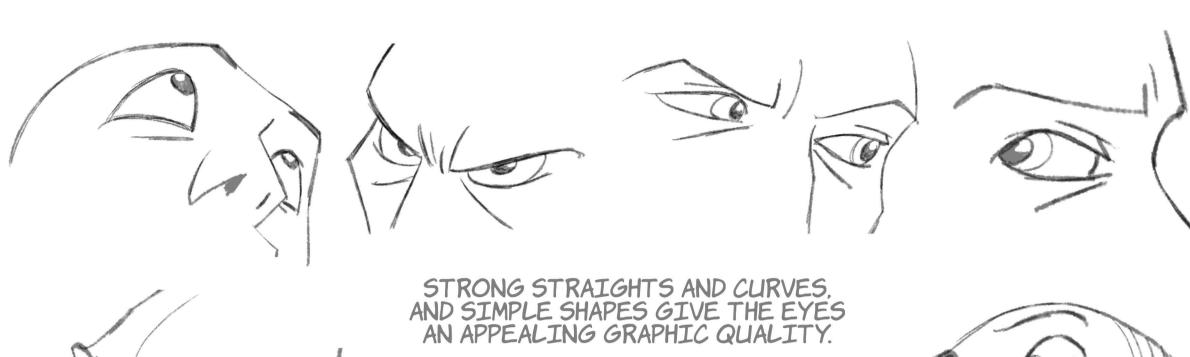


1/3 OPEN

#3. COMBINATION BLINK. THE BROWS MOVE, BUT NOT ENOUGH TO CREATE A SQUINT. THIS IS ALSO A MORE INTERESTING BLINK THAN #1.

# 03\_04: REALISTIC EYES











JUST BECAUSE YOUR STYLE IS MORE NATURALISTIC DOESN'T MEAN THAT YOU CAN'T EXAGGERATE.



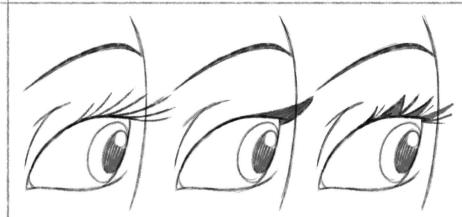




CLASSIC FEMALE FACE, AS SEEN IN MANY MOVIES.



DIFFERENT EYELINE ORIENTATIONS ARE POSSIBLE, AND THEY ALL LOOK EQUALLY FEMININE.



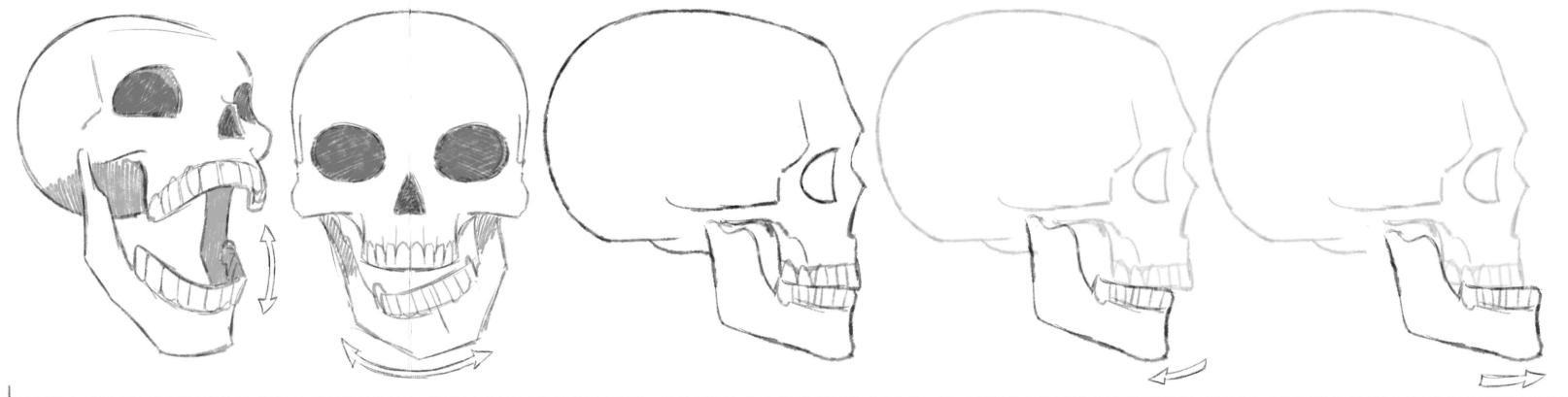
#1: INDIVIDUAL LASHES. #2: TRIANGULAR SHAPE. #3: COMBINATION OF 1 & 2.

DO NOT FEEL COMPELLED TO FOLLOW AN IDEALIZED FEMALE DESIGN. FEMALE CHARACTERS CAN BE JUST AS INTERESTING AND VARIED AS MALES!



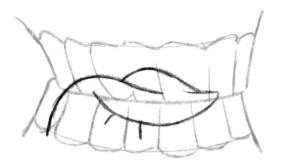
#### 03\_05: CARTOONY MOUTHS

ANATOMICAL STRUCTURE & RANGE OF MOTION



THE JAW IS EXTREMELY MOBILE. IT MOVES UP AND DOWN, SIDE TO SIDE, AND FRONT TO BACK, ALLOWING CIRCULAR MOVEMENT.

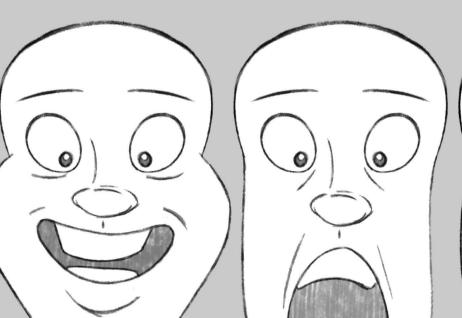
MOST OF THE SPEAKING IS DONE BY THE TONGUE.

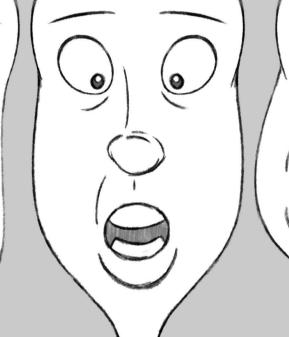


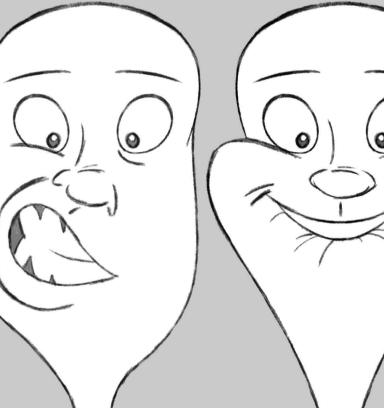
KEEP THE FACE CHEWY WHEN DRAWING MOUTH SHAPES.

SQUASH & STRETCH THE JAW & MOUTH AS NEEDED.

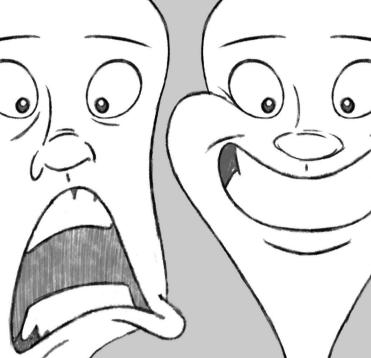
WHEN ANIMATING IN A CARTOONY STYLE, THE UPPER TEETH DO MOVE, BUT MUCH LESS THAN THE LOWER ROW.



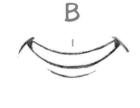














THE A/F DIALOG SYSTEM USED IN TV ANIMATION.

THE LETTERS A-F DO NOT CORRESPOND TO PHONETIC

SOUNDS. THEY'RE JUST TEXT LABELS. TV CARTOONS,

WHETHER DRAWN OR FLASH/CGI, USE THIS SYSTEM.









SOME PRODUCTIONS ADD SPECIALIZED MOUTHS FOR SPECIFIC PHONEMES, E.G. THE 'L' AND 'F' SHAPES.

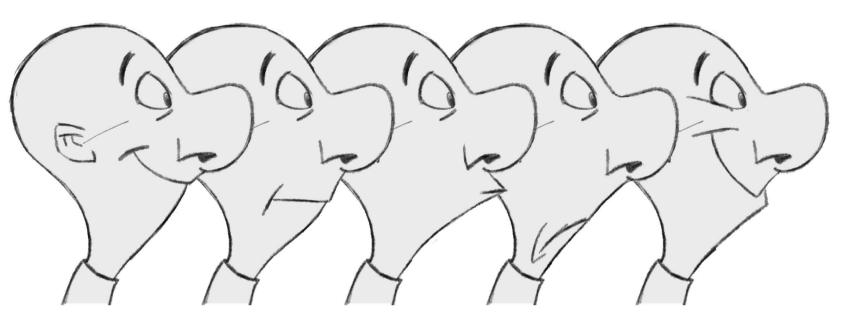


MOUTHS FROM THE UPPER ROW WILL ANIMATE INTO ONE ANOTHER SMOOTHLY.

MOUTHS FROM THE LOWER ROW WILL ANIMATE INTO ONE ANOTHER SMOOTHLY.



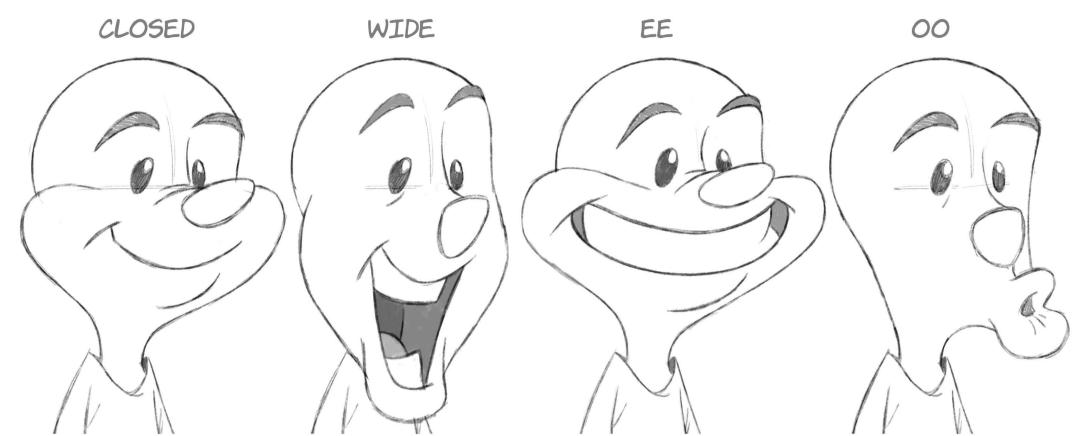
GOING FROM ONE TO THE OTHER AND BACK AGAIN LOOKS CHOPPY. KEEP LOOKING FOR FRESH MOUTH SHAPE DESIGNS.



REMEMBER: YOU ARE NOT LIMITED TO A STATIC LIBRARY OF SIX DESIGNS. THERE IS A MASSIVE VARIETY OF ANY MOUTH TYPE. E.G. HERE ARE FIVE VARIANTS OF THE CLOSED 'A' MOUTH.

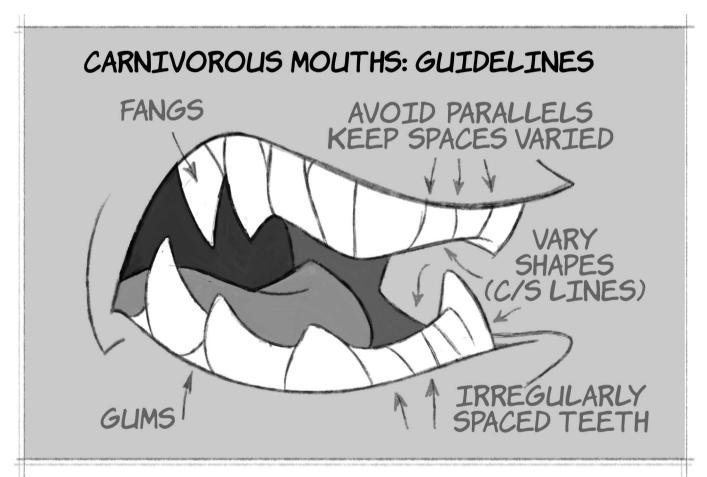
#### 03\_05: CARTOONY MOUTHS

THESE ARE THE FOUR MOST IMPORTANT BASIC MOUTH FORMS.



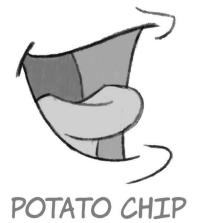
TEETH CAN BE DRAWN WITH DIFFERENT DEGREES OF DETAIL/PENCIL MILEAGE.





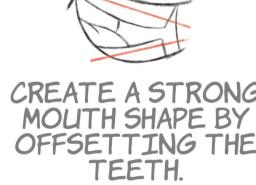
VARIETIES OF TONGUE DESIGN:







#### A TOOTH TRICK:

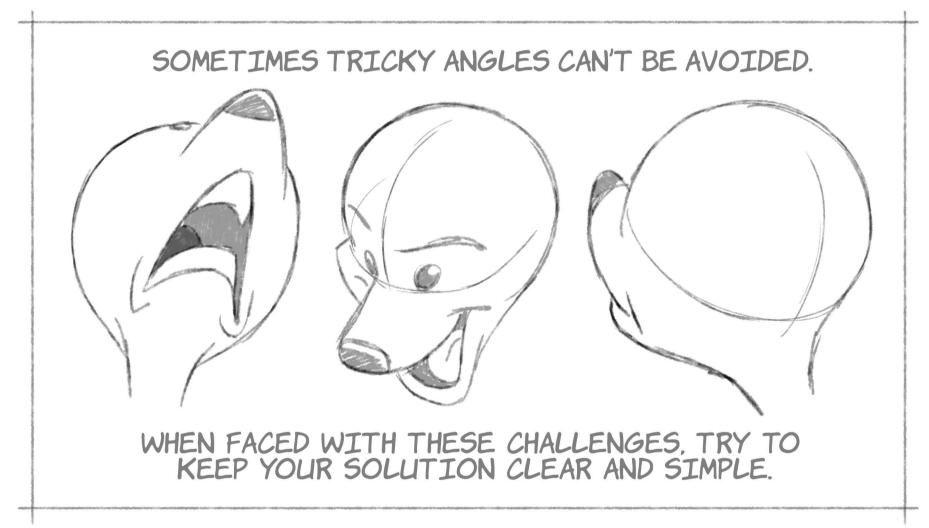


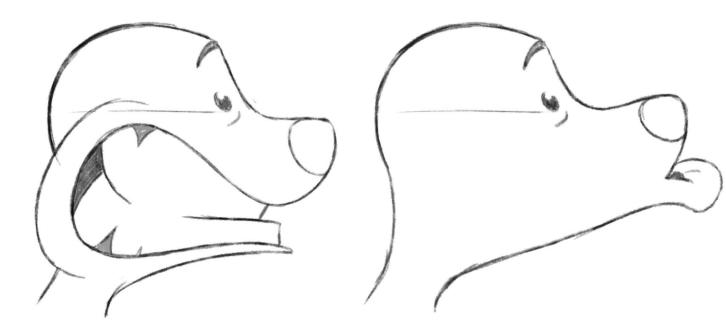


THIS ISN'T STRICTLY ANATOMICALLY CORRECT, BUT IT LOOKS GOOD!

OF COURSE YOU CAN CREATE CUSTOM SHAPES IN ADDITION TO THESE.

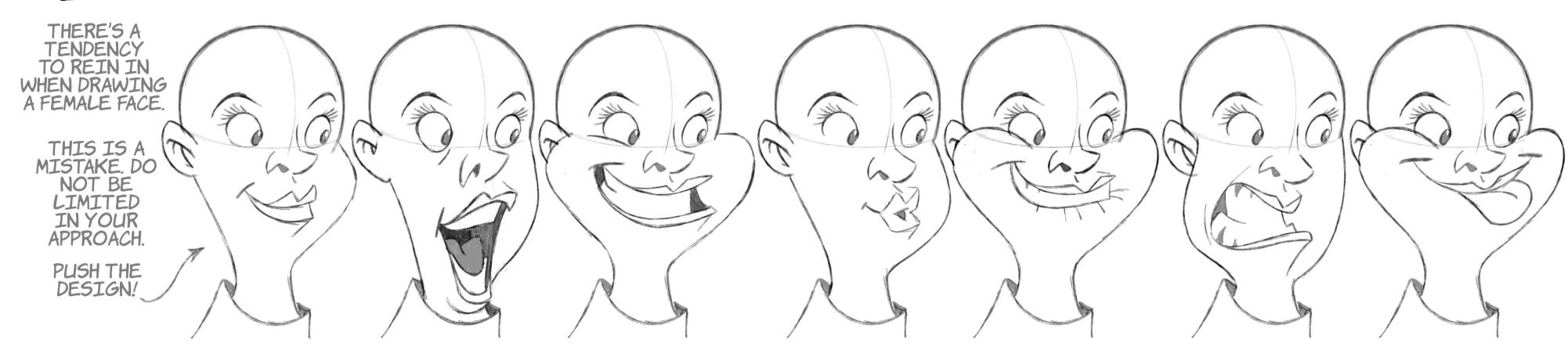




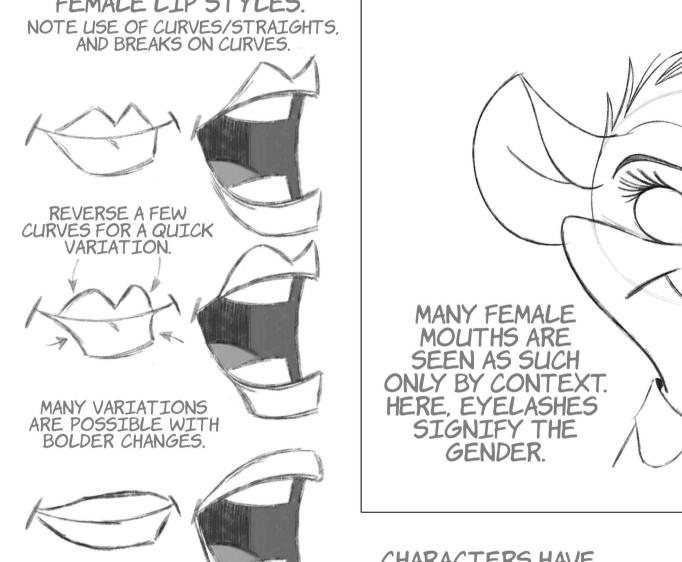


STAY FLEXIBLE. PUSH THE MODEL AS FAR AS YOU CAN.

#### 03\_05: CARTOONY MOUTHS

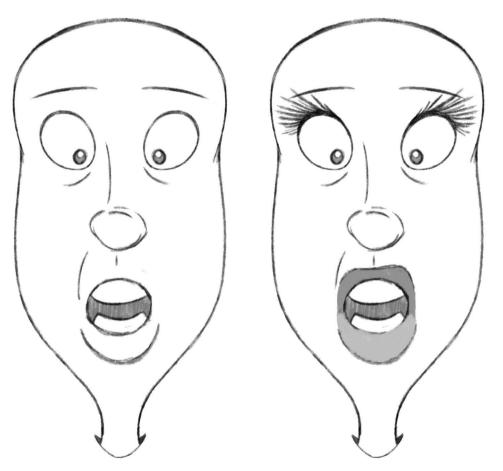


FEMALE LIP STYLES.

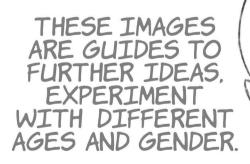




MANY DESIGNS ARE NOT SPECIFICALLY MALE OR FEMALE. ADDING LIPSTICK. EYELASHES OR LONG HAIR IS OFTEN ENOUGH TO TRANSFORM GENDER.

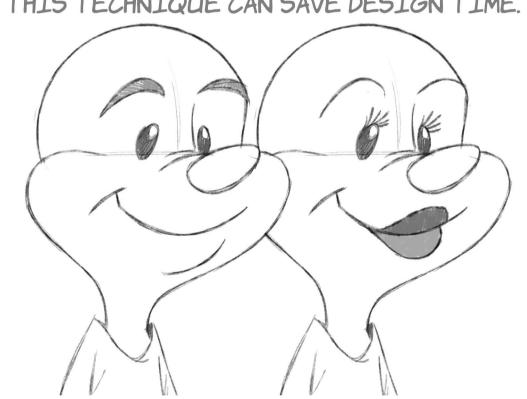


CHARACTERS HAVE NO OBLIGATION TO BE BEAUTIFUL OR YOUNG, OR EVEN TO HAVE TEETH.

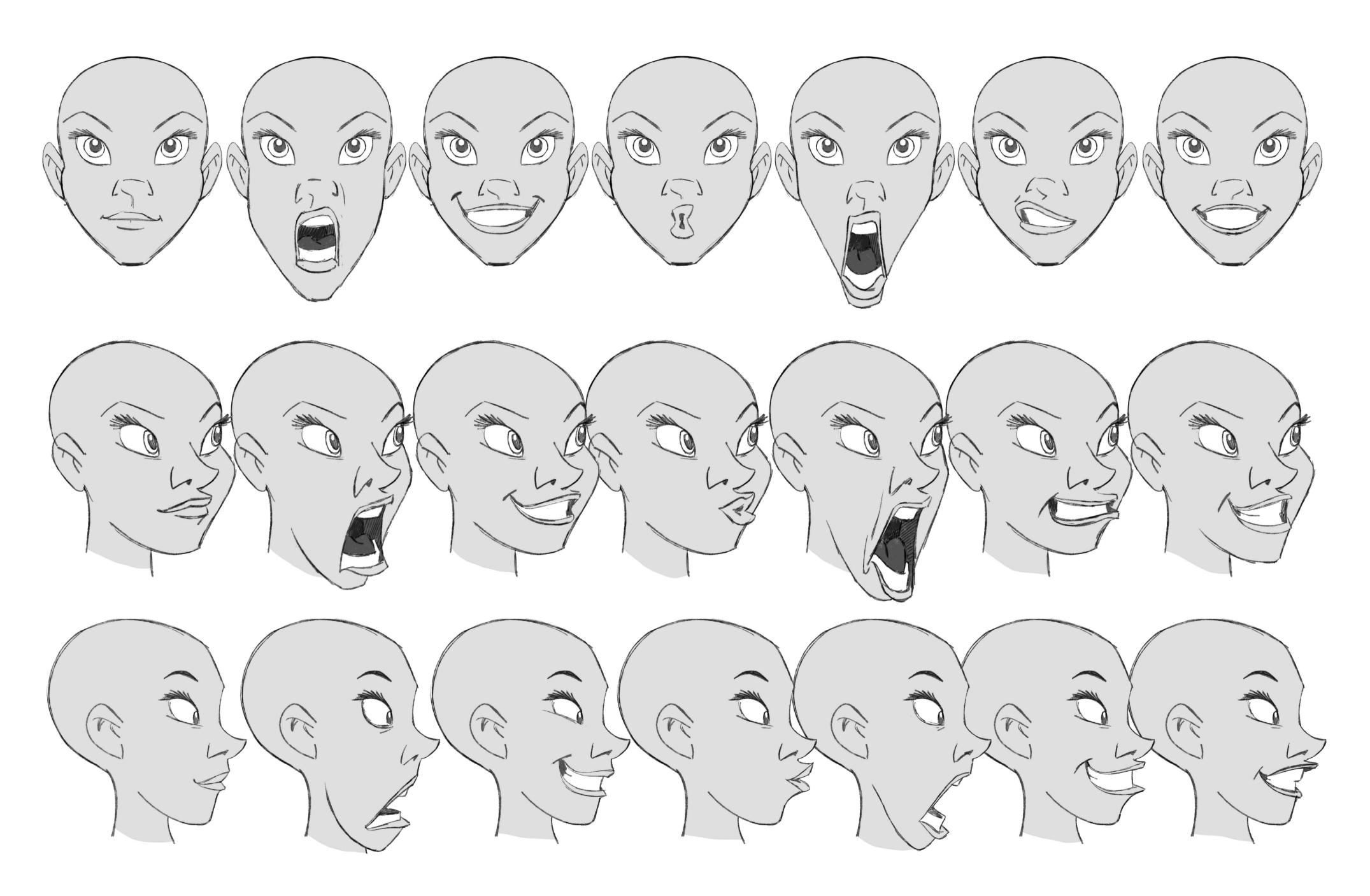




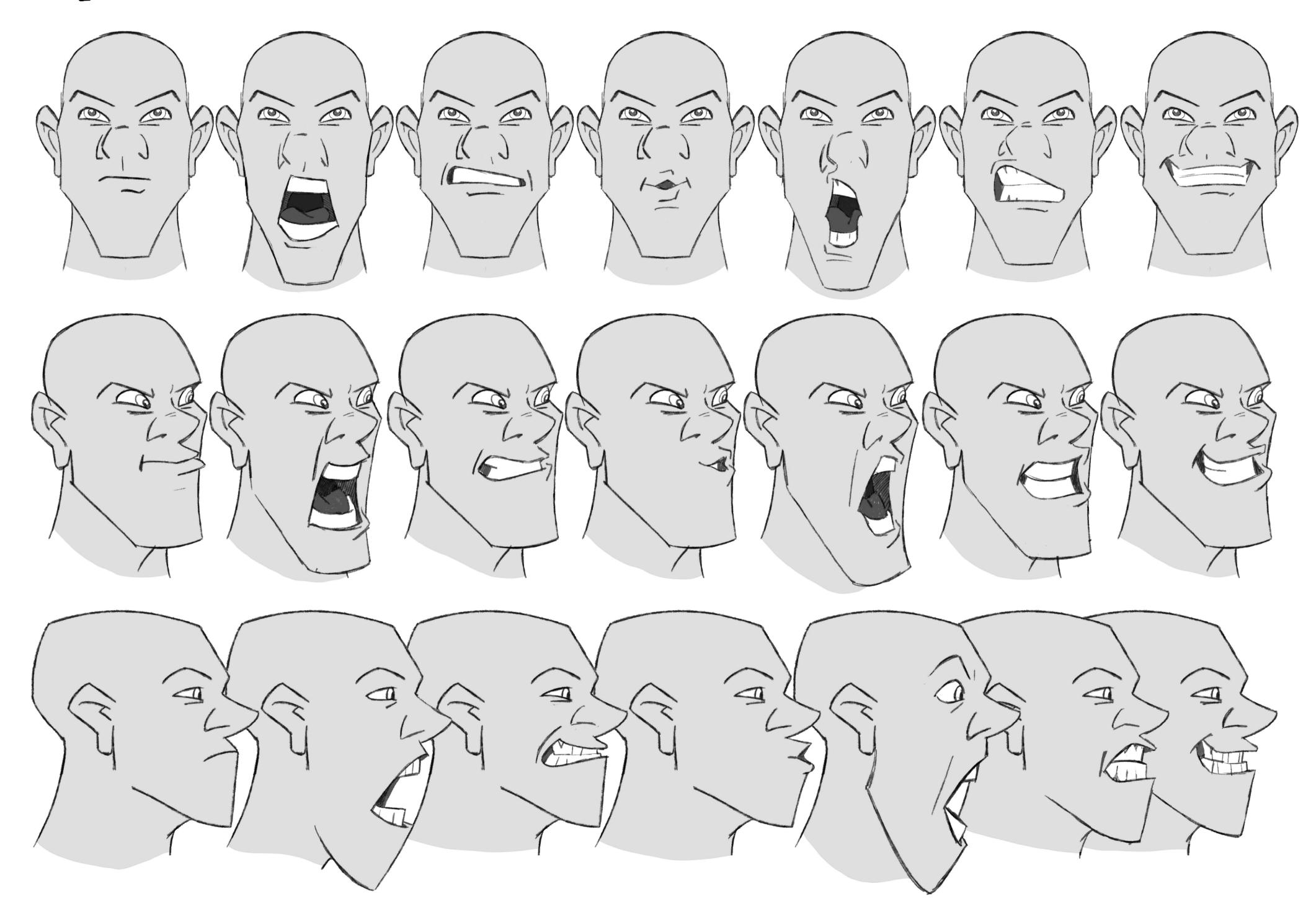
THIS TECHNIQUE CAN SAVE DESIGN TIME.



# 03\_06: MOUTHS (REALISTIC FEMALE)

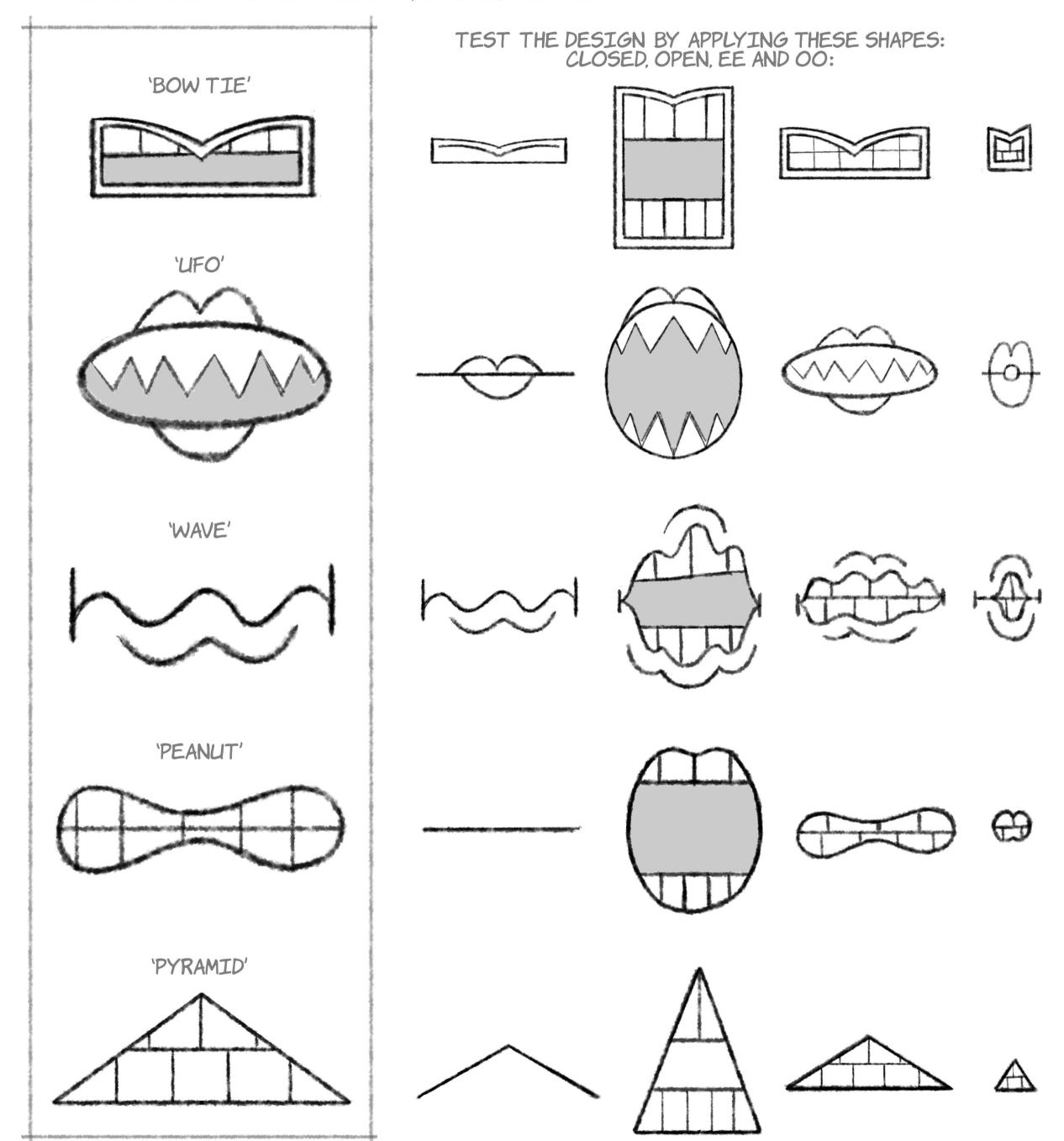


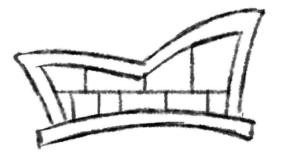
# 03\_06: MOUTHS (REALISTIC MALE)

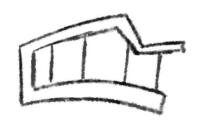


#### 03\_06: MOUTHS (STYLIZED)

TRY BUILDING A SERIES OF MOUTH SHAPES FOR DIALOG, BUT USE ONLY THE MOST SIMPLE, GRAPHIC SHAPES.







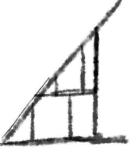
MANY TV SHOWS TODAY USE VERY SIMPLE, GRAPHIC STYLES FOR MOUTHS; BEING ABLE TO WORK WITH SIMPLE SHAPES IS AN ASSET.



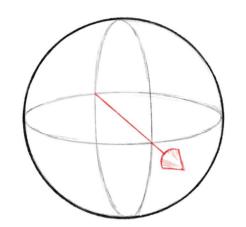


JUST BECAUSE THE MOUTH DESIGNS ARE GEOMETRICAL, YOU DON'T HAVE TO FEEL TRAPPED WITH A NARROW RANGE OF MOVEMENT. IT MAY BE POSSIBLE TO COAX INTERESTING AND FLEXIBLE SHAPES FROM SUCH SIMPLE DESIGNS.

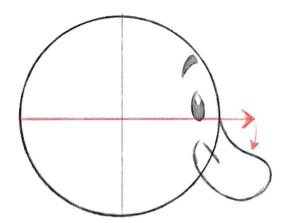




#### 03\_07: NOSES (CARTOONY)

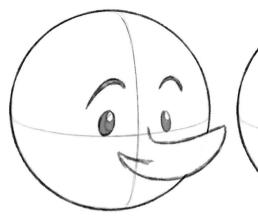


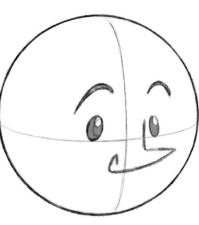
IMAGINE A LINE FROM THE BACK OF THE HEAD THROUGH THE FRONT.

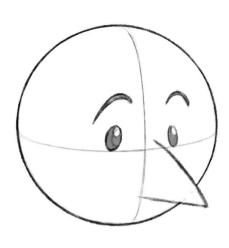


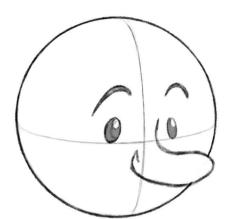
THIS IS A USEFUL GUIDE, EVEN IF THE NOSE IS ANGLED.



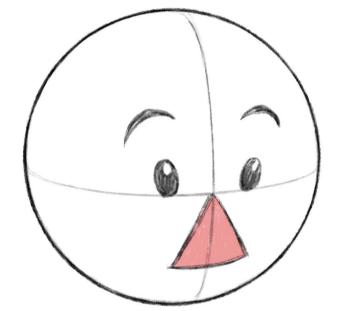








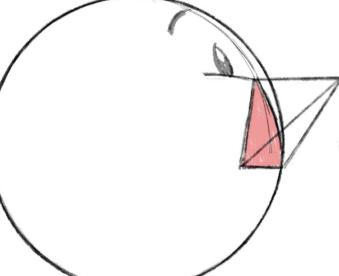
THERE ARE MANY NOSE DESIGNS IN TRADITIONAL CARTOON STYLES. THESE SIX ARE A SMALL SAMPLE TO SHOW SOME OF THE VARIETY POSSIBLE.



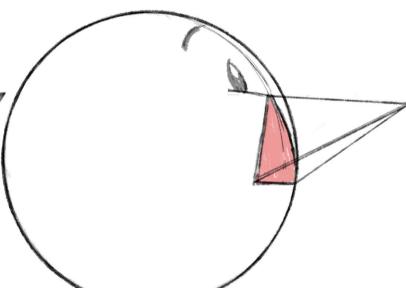
IMAGINE THE NOSE FIXED TO THE SKULL BY A TRIANGLE.



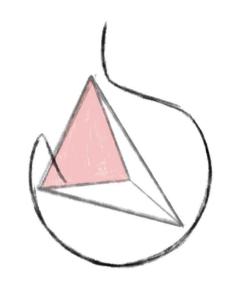
THE NOSE IS DRAWN AROUND THIS IMAGINARY PYRAMID.



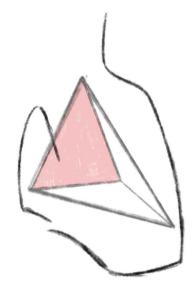
VARY THE POINT OF THE NOSE AS YOUR DESIGN REQUIRES.



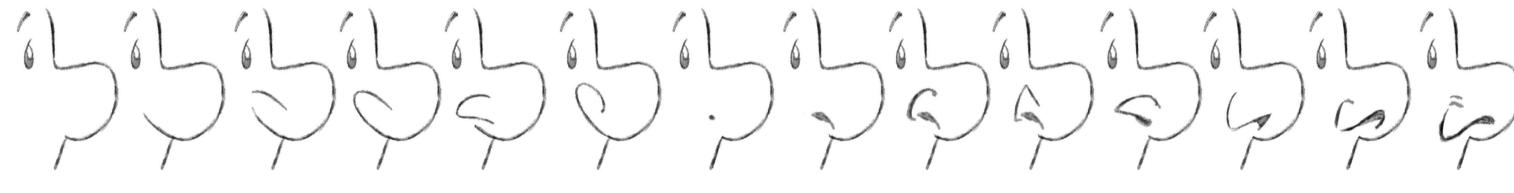
VARY THE LENGTH OF THE NOSE AS YOUR DESIGN REQUIRES.



THE CORNERS OF THE TRIANGLE SUGGEST NOSTRIL POSITIONS.



DIFFERENT DESIGNS CAN BE BUILT OVER IT.



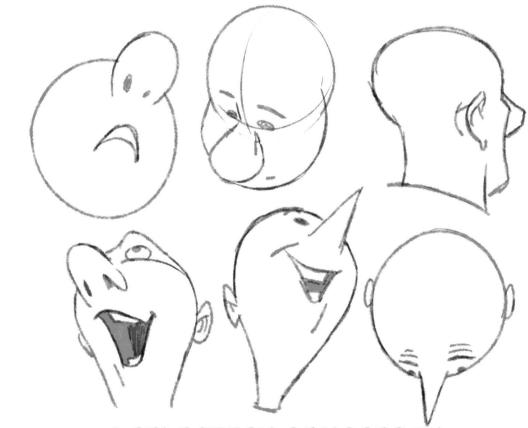
EVEN AN AREA AS SIMPLE AS THE CORNER OF THE NOSE CAN BE DRAWN IN A MULTITUDE OF WAYS.



YOU DON'T HAVE TO DRAW THIS PYRAMID EVERY TIME. IT'S OFTEN ENOUGH TO IMAGINE THAT IT'S THERE.



DON'T BE INHIBITED WHEN DESIGNING. EXPERIMENT WITH DIFFERENT SHAPES AND STYLES. YOU MAY FIND THAT A SIMPLE GEOMETRIC TRIANGLE WORKS BEST.



A SELECTION OF NOSES IN COMMON TROUBLESOME ANGLES.

03\_07: NOSES (REALISTIC)



JUST BECAUSE YOU'RE DRAWING A REALISTIC FACE, DOESN'T MEAN YOU CAN'T SIMPLIFY OR STYLIZE IT.



DON'T BE AFRAID TO PUSH OR EXAGGERATE THE FEATURES.



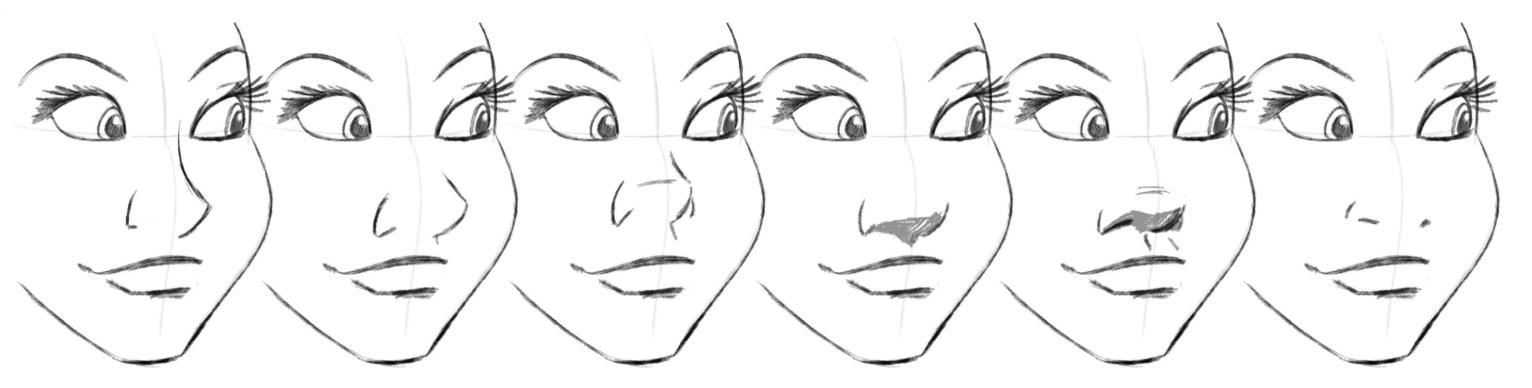
EVEN THE NOSE IS FLEXIBLE; THE TIP AND CORNERS REACT TO EXPRESSIONS, AND SQUASH & STRETCH.



4 OR 5 BASIC LINES CAN BE ENOUGH TO 'READ' AS A NOSE.







DIFFERENT TREATMENTS OF THE SAME NOSE, FROM LINEAR (3 LEFT IMAGES) TO LIGHT BASED (3 RIGHT IMAGES).



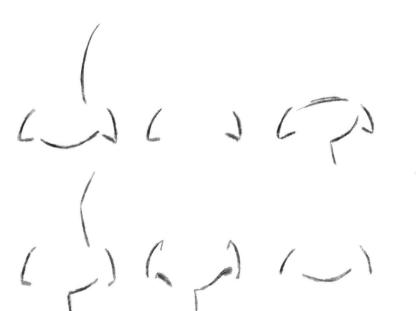
YOU DON'T HAVE TO STICK TO THIS PIXIE/ CURVED FORMULA. IN REALITY, FEATURES ARE NOT SO LIMITED.



TRY OUT NOSE SHAPES
THAT MIGHT SEEM TOO
STRAIGHT OR MASCULINE,
TO SEE IF THEY WORK.

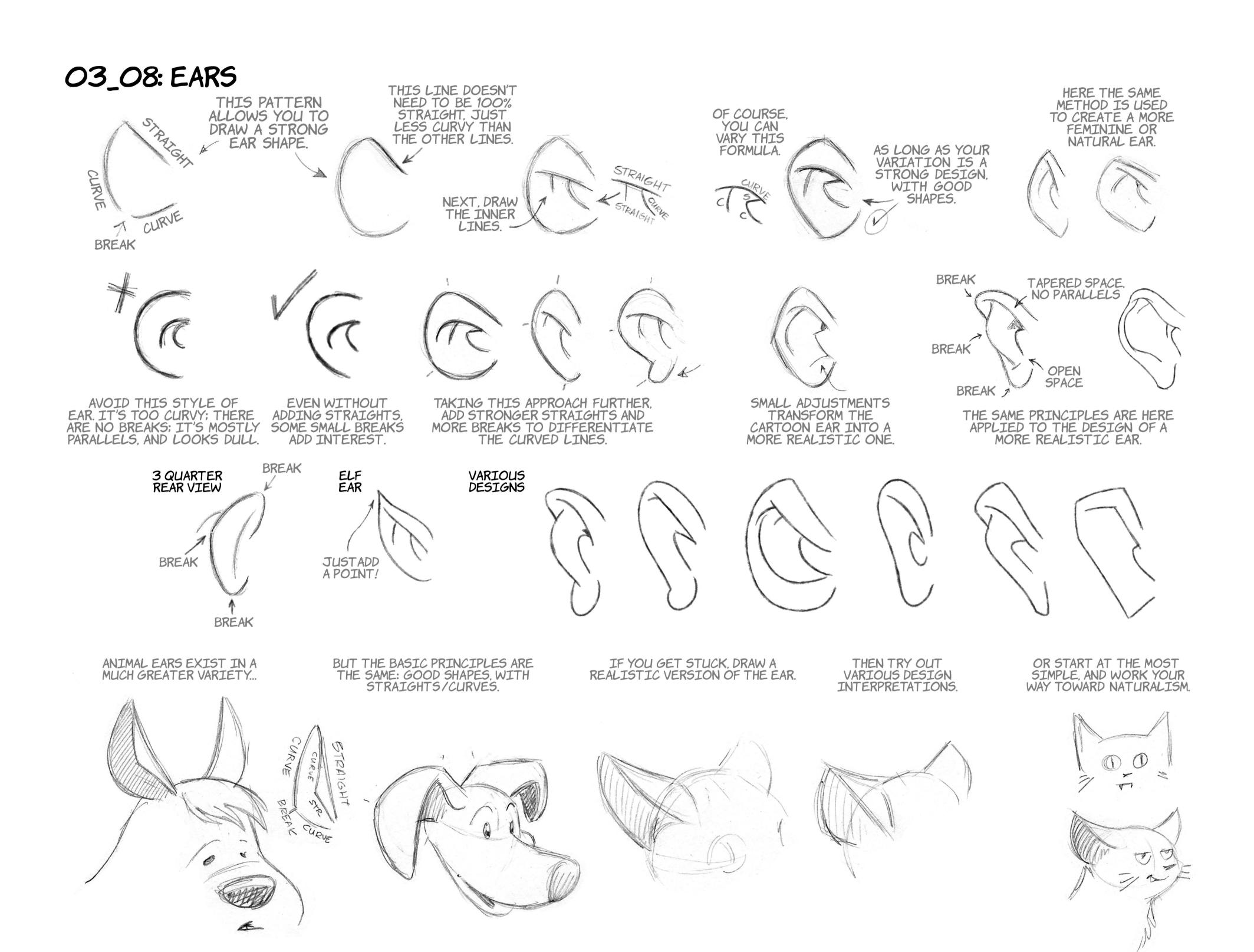


THERE IS A CONTINUUM OF STYLES BETWEEN CARTOONY AND REALISTIC.



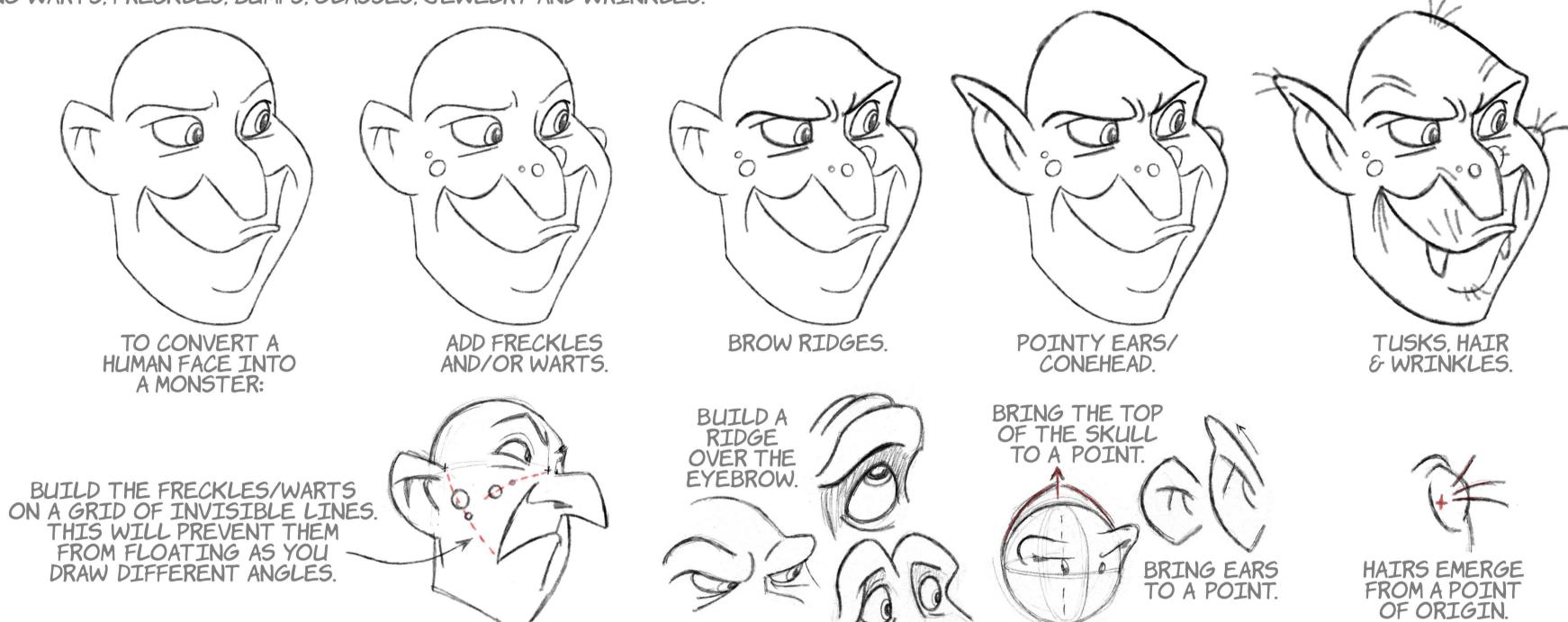
VARIATIONS OF NOSE STYLES AND PROFILES.

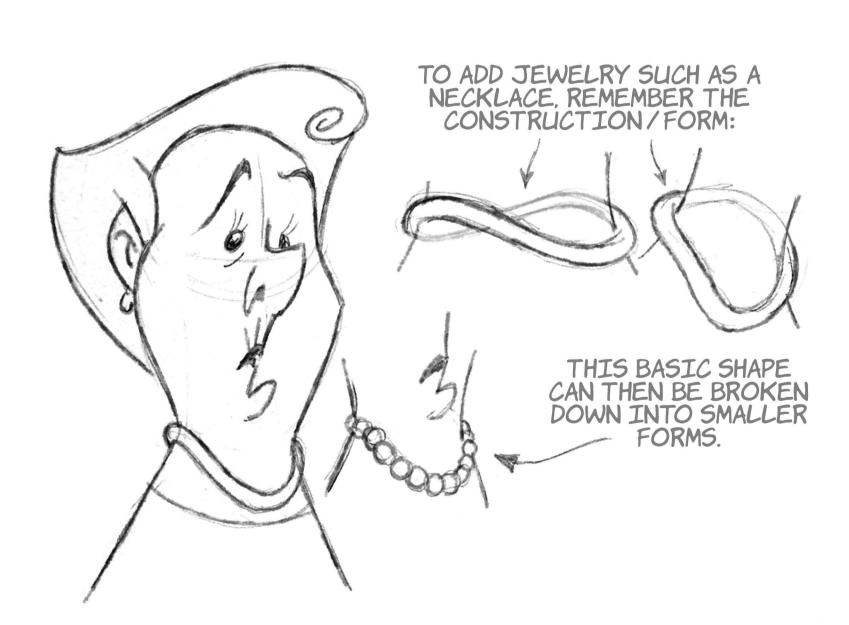


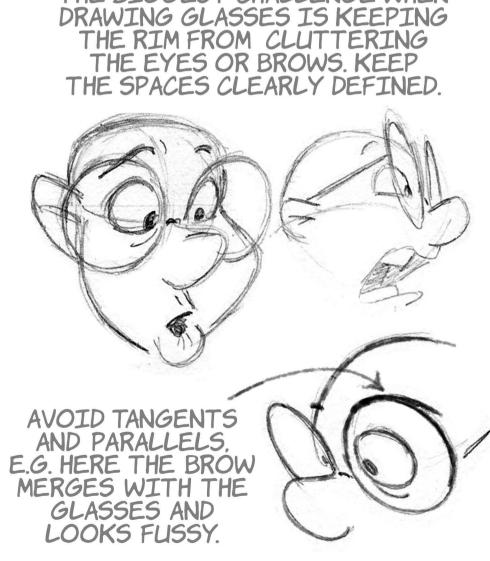


#### 03\_09: DETAILS

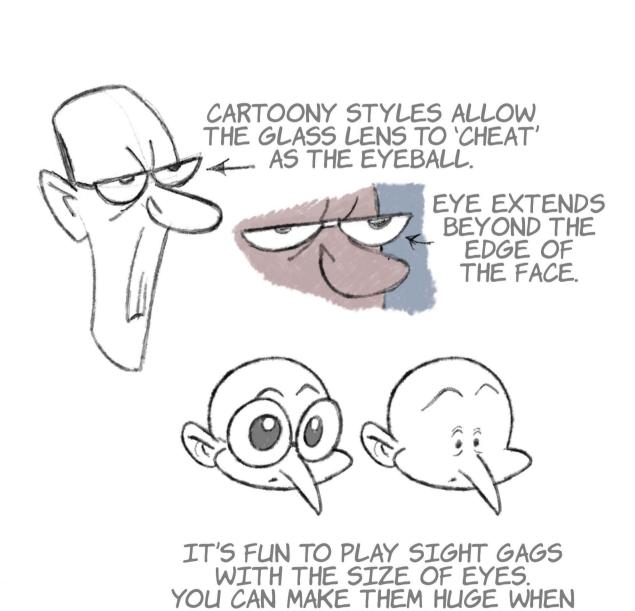
ADDING WARTS, FRECKLES, BUMPS, GLASSES, JEWELRY AND WRINKLES.







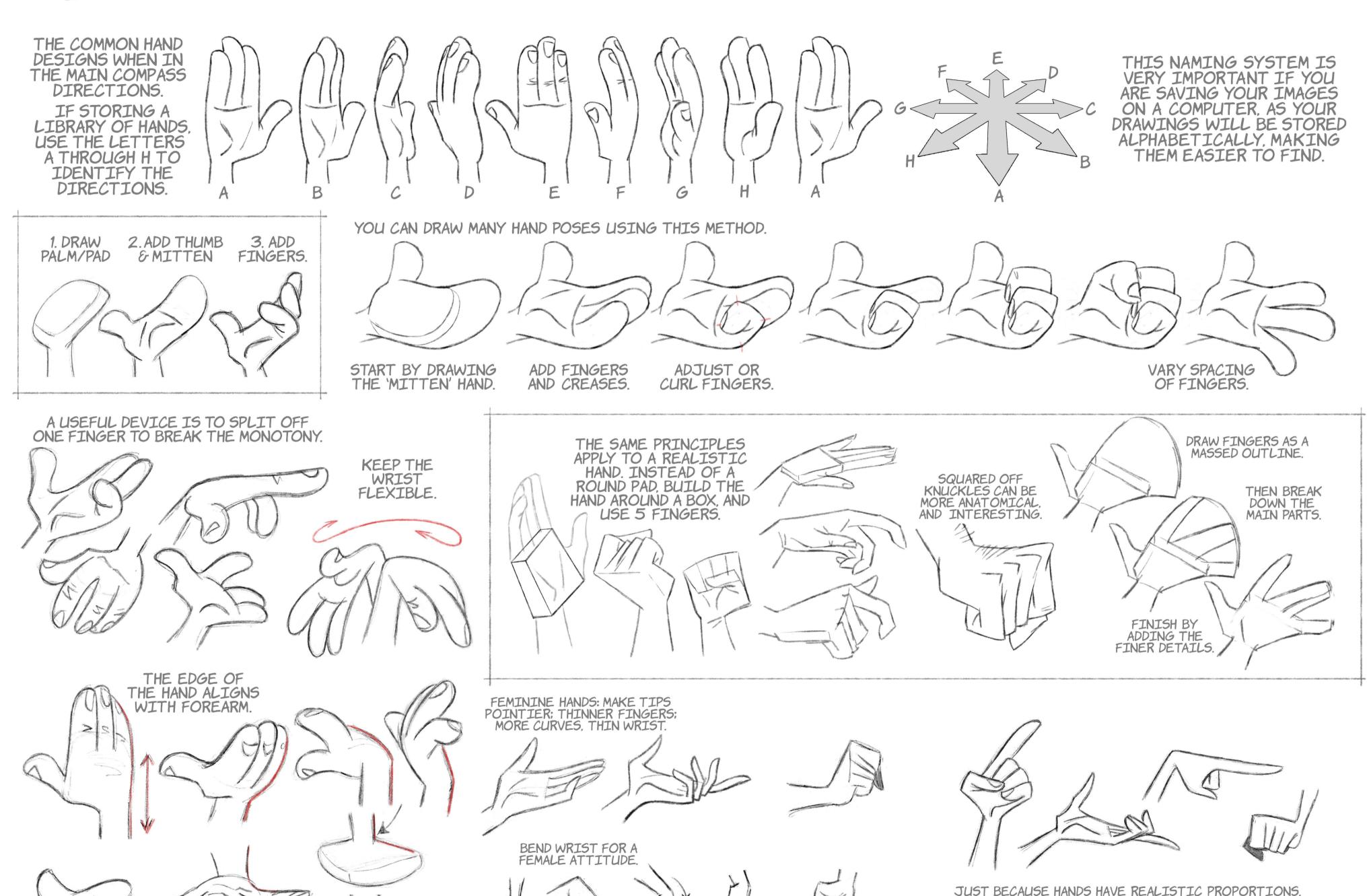
THE BIGGEST CHALLENGE WHEN



GLASSES ARE ON, AND TINY DOTS

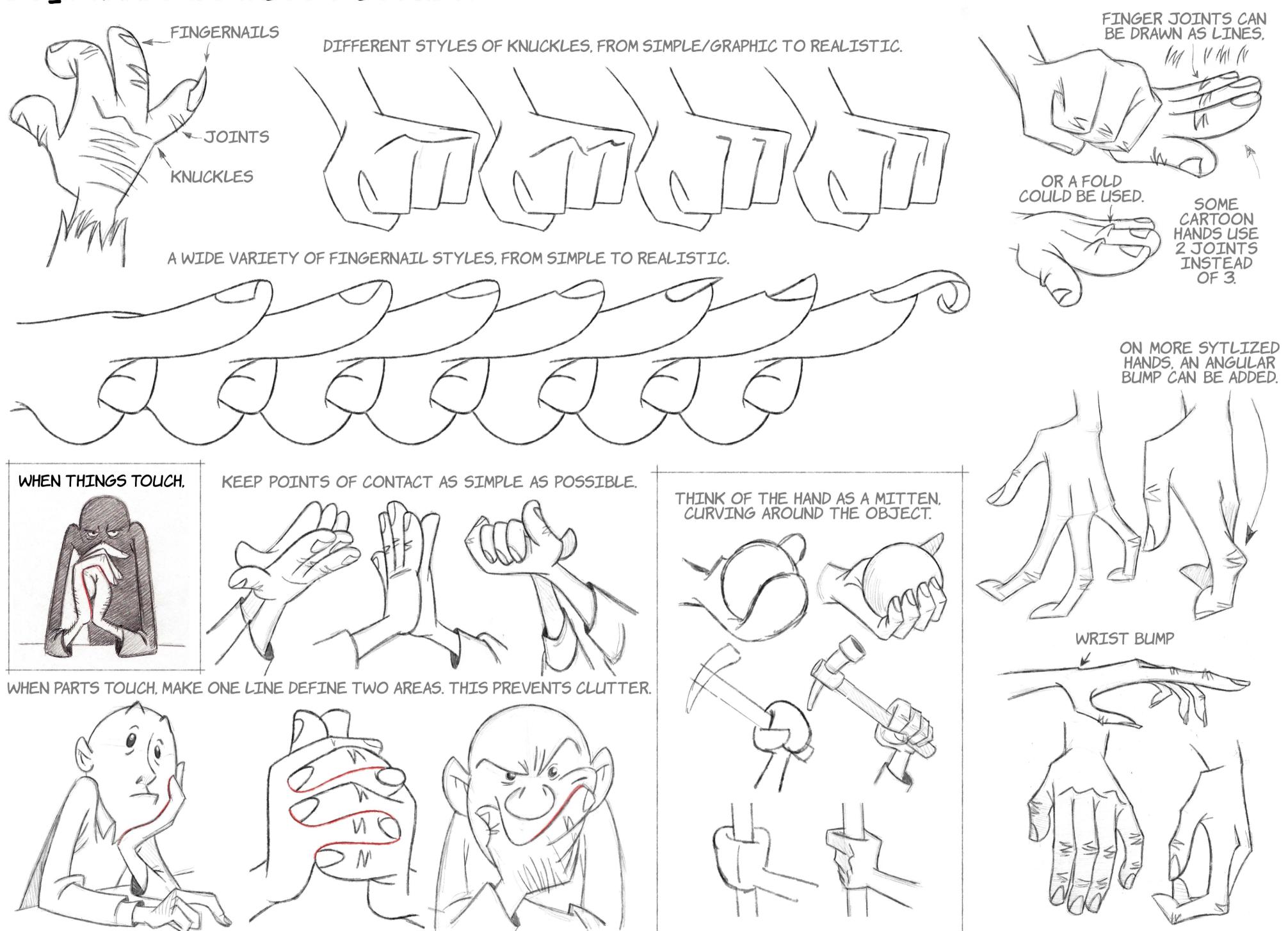
WHEN THEY'RE OFF.

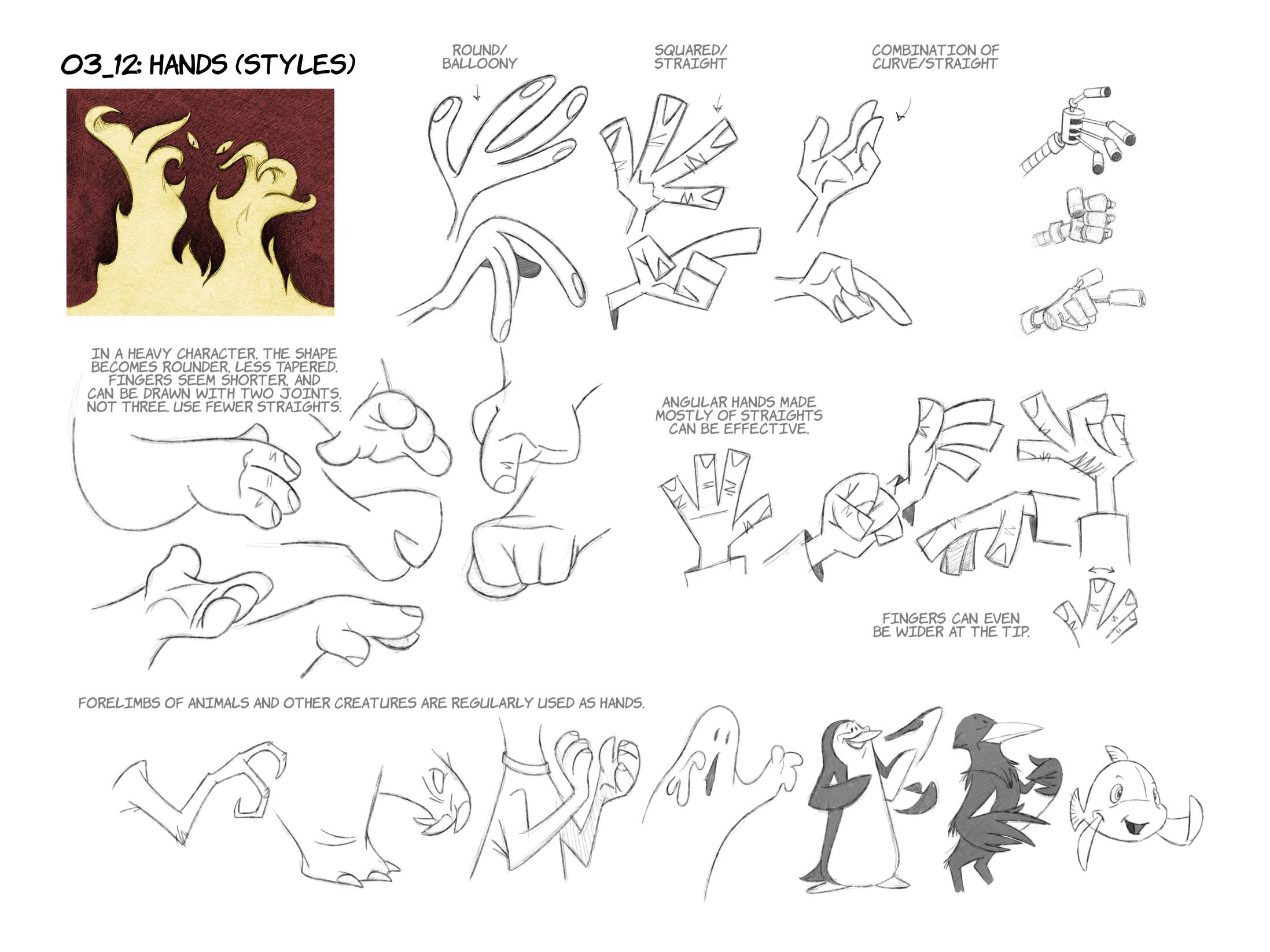
#### 03\_10: HANDS (INTRODUCTION)



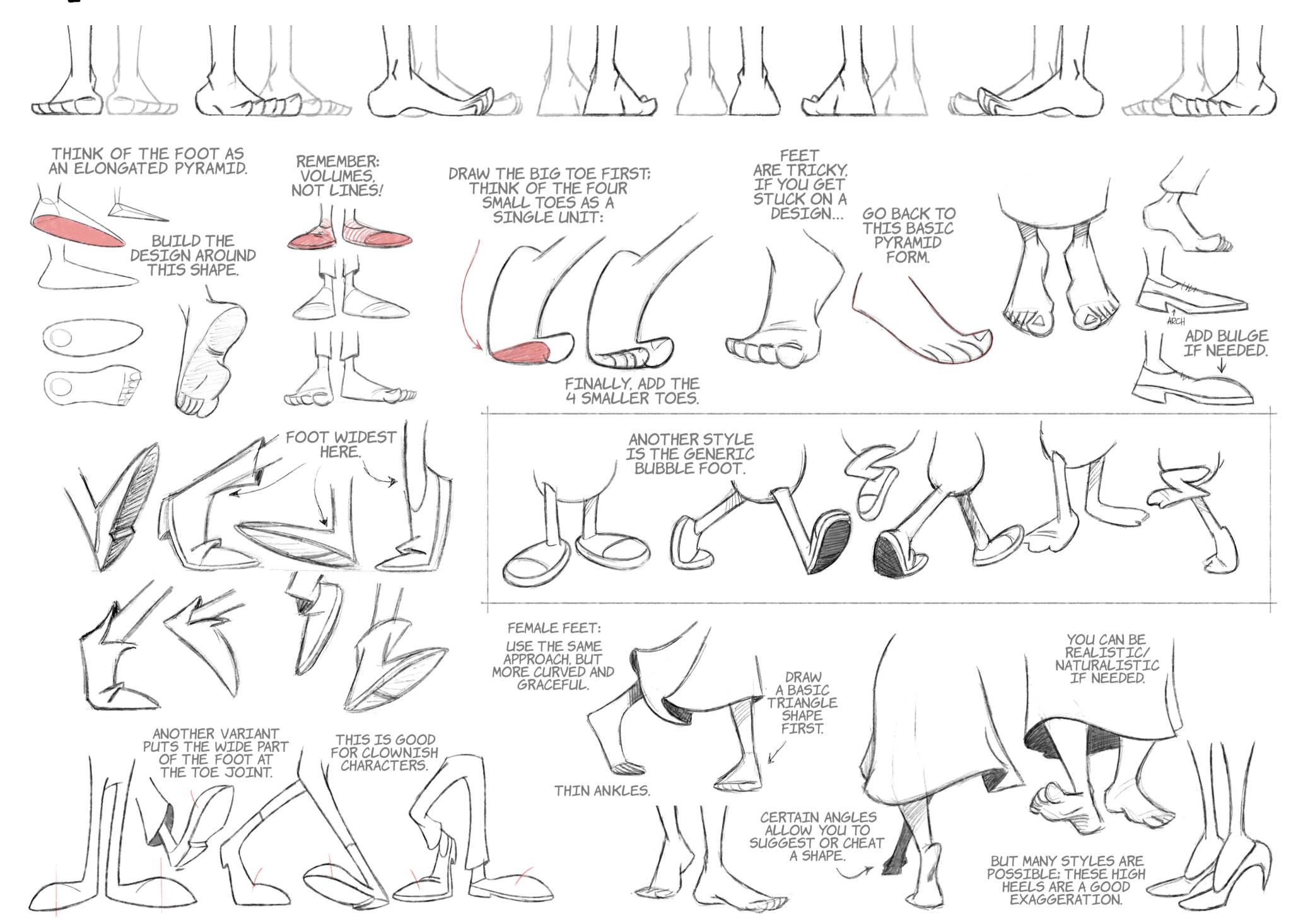
DOESN'T MEAN THAT YOU CAN'T STYLIZE THEM, OR EXPERIMENT WITH THE DESIGN.

## 03\_11: HANDS (DETAILS & ISSUES)

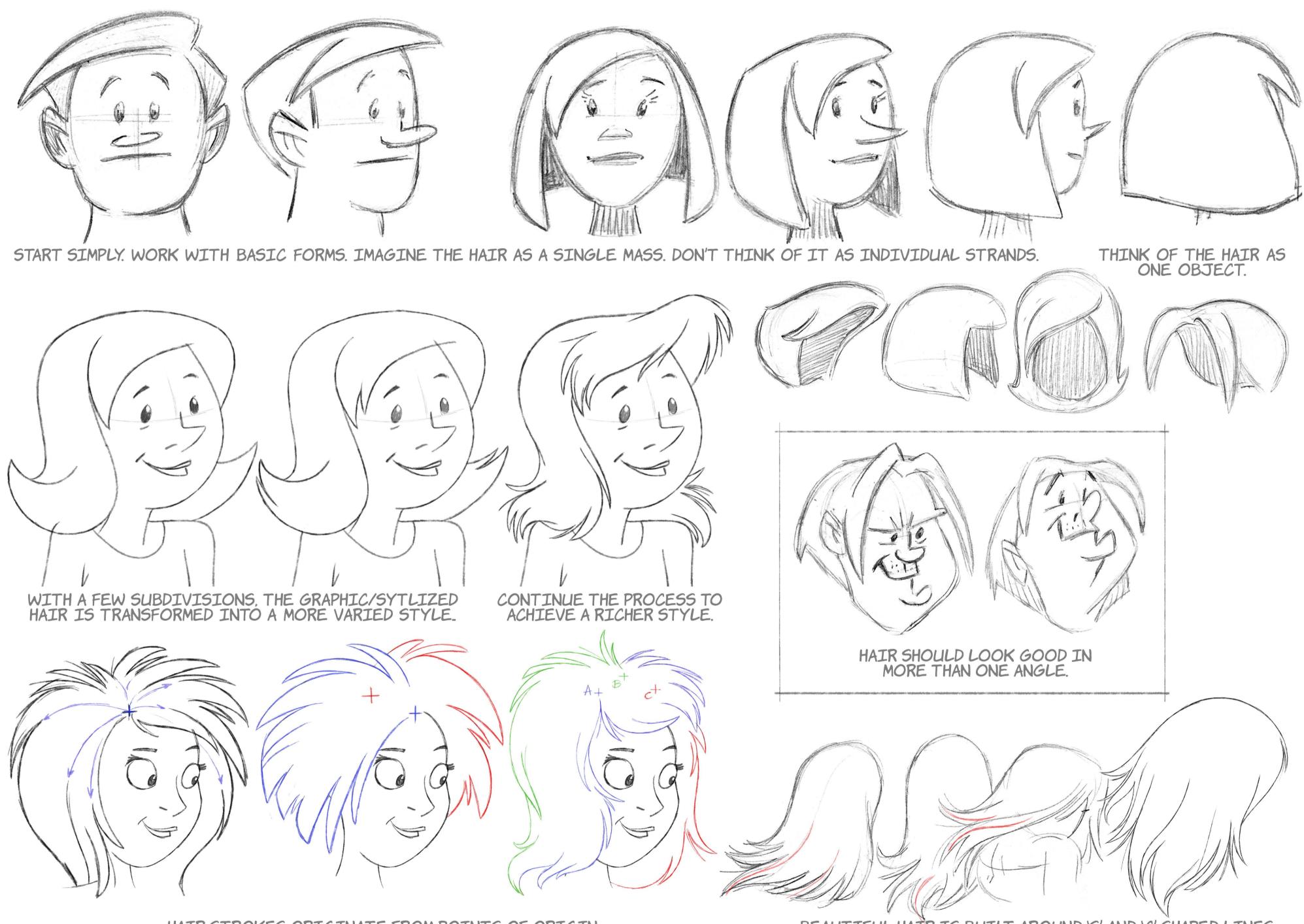




# 03\_13: FEET



## 03\_14: HAIR & BEARDS



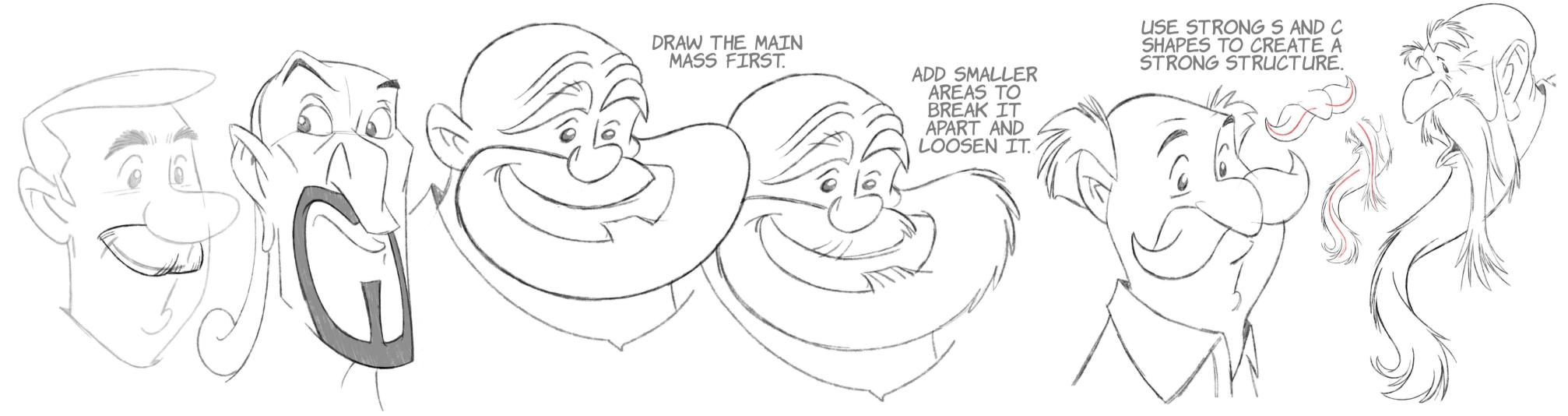
HAIR STROKES ORIGINATE FROM POINTS OF ORIGIN.

BEAUTIFUL HAIR IS BUILT AROUND 'S' AND 'C' SHAPED LINES.

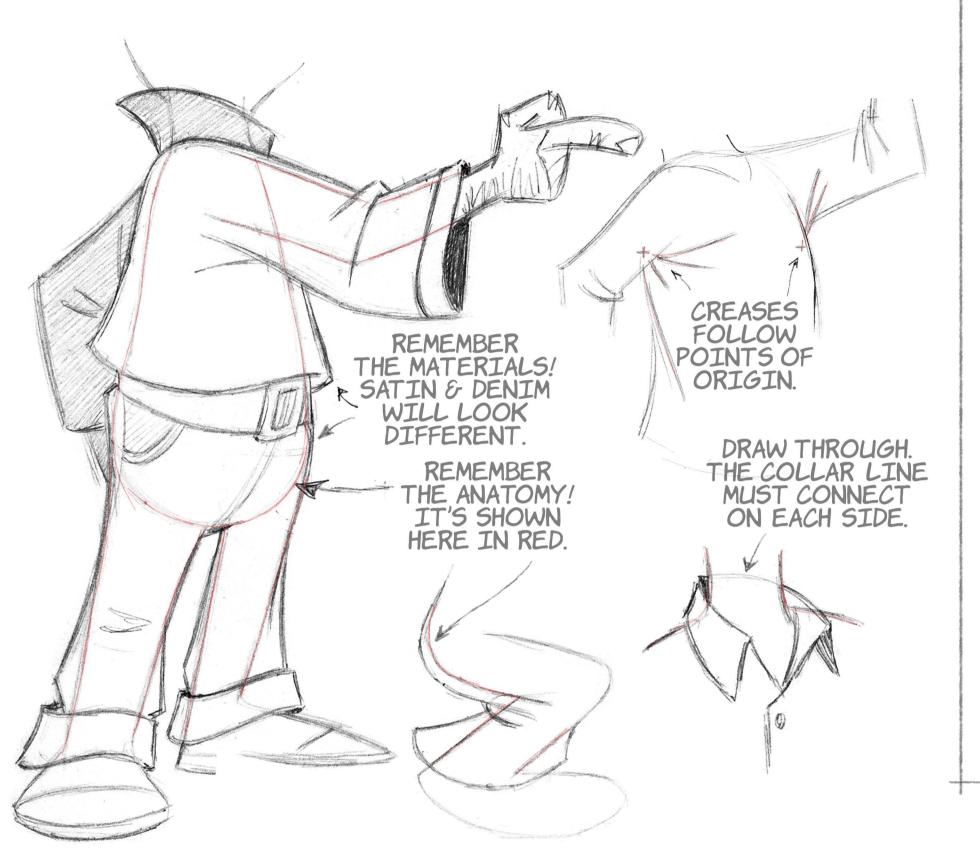
# 03\_14: HAIR & BEARDS



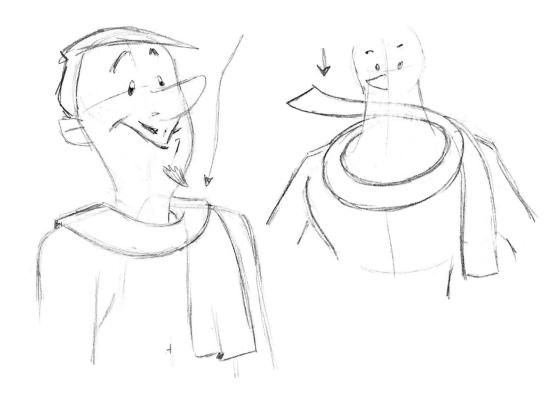
THERE IS NO END TO THE POSSIBLE VARIETY OF HAIR STYLES (AND GRAPHIC STYLES TO REPRESENT THEM). CURVED, ANGULAR, 2D OR CLASSIC/TRADITIONAL.



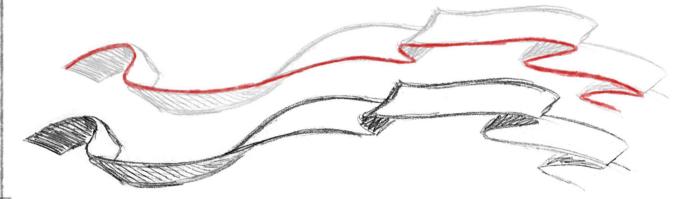
## 03\_15: CLOTHING

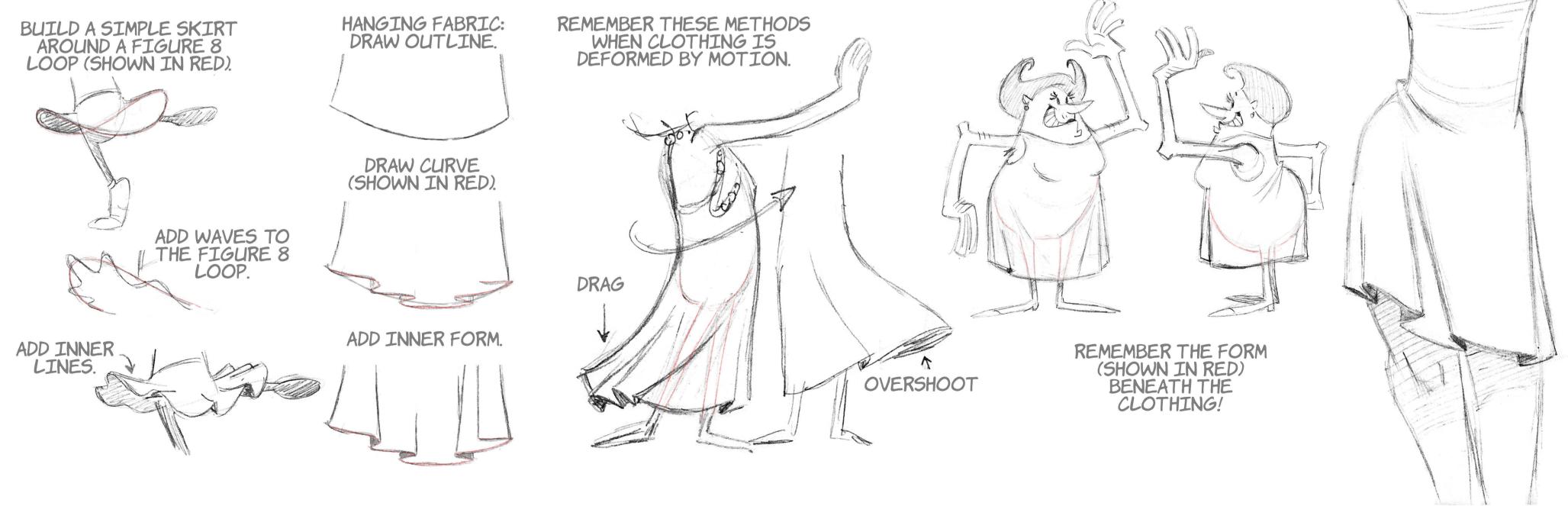




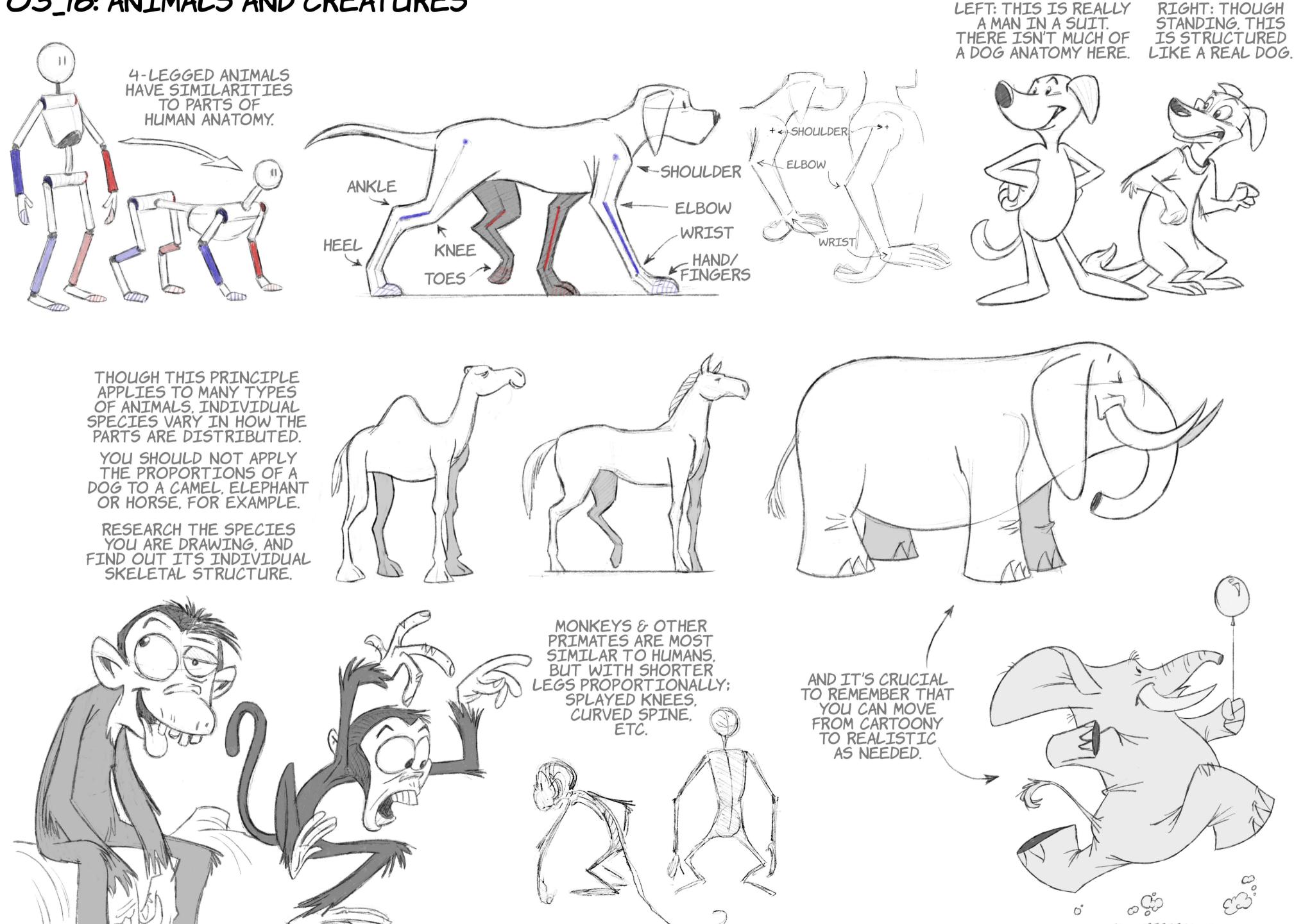


WHEN DRAWING FABRIC, SKETCH THE SHAPE IN A LONG STROKE (SHOWN IN RED; USE WHATEVER COLOR YOU LIKE). THEN BUILD THE REST OF THE FABRIC AROUND THAT, ADDING THE FOLDS AND SIDES.





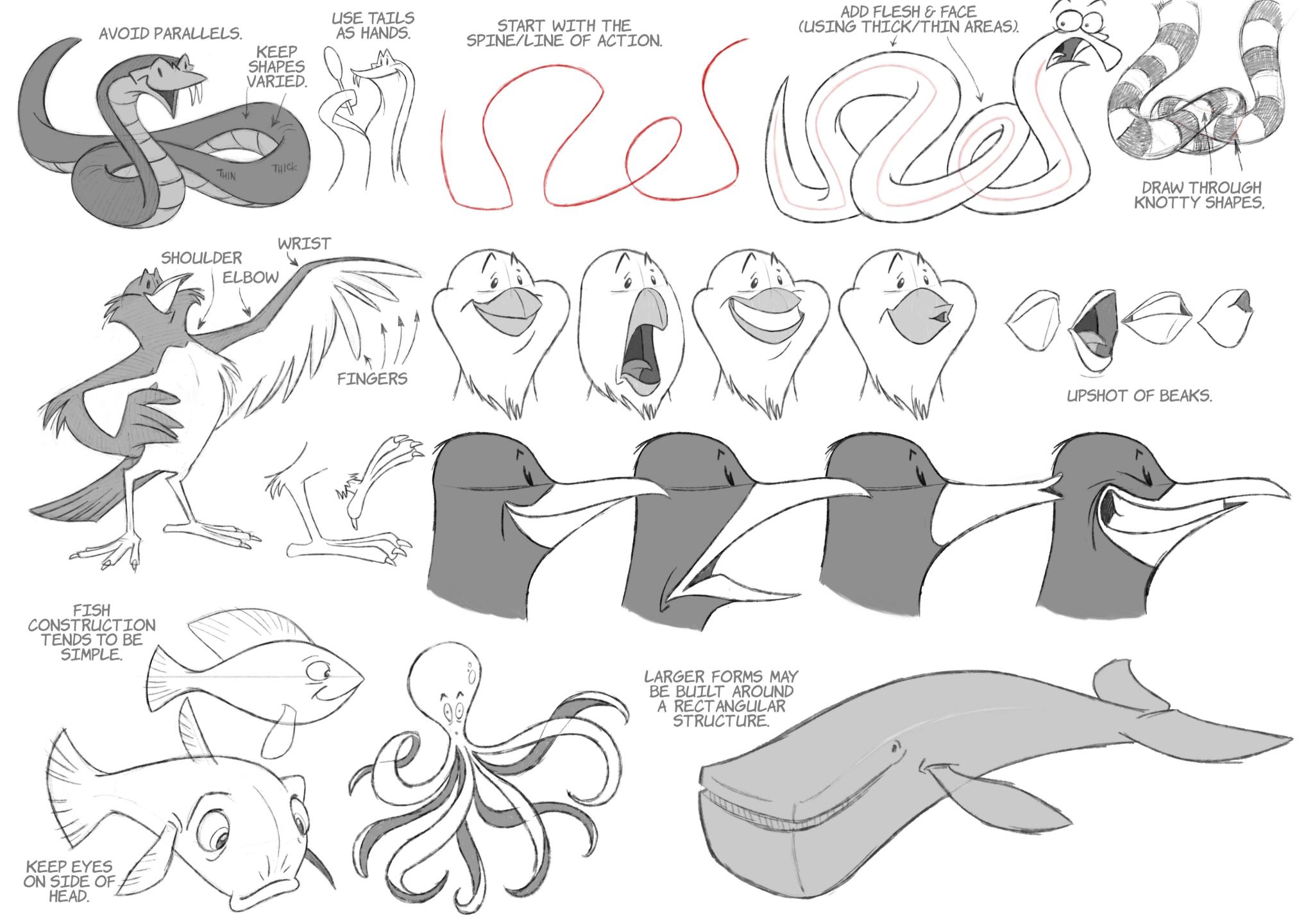
## 03\_16: ANIMALS AND CREATURES



RIGHT: THOUGH

## 03\_16: ANIMALS AND CREATURES

SNAKES, BIRDS AND AQUATICS



# 03\_17: CREATURES NATURAL ELEMENTS LIKE STEAM, FIRE OR WATER CAN ALSO BE ALIVE. ALIENS ARE AN OPPORTUNITY FOR FUN AND EXAGGERATION. DINOSAURS FOLLOW THE SAME GENERAL ANATOMICAL PRINCIPLES AS LIVING ANIMALS. PARTICULARLY WITH FANTASTIC CHARACTERS, BE ADVENTUROUS. EVERY PART OF THIS CHARACTER IS HAIR; A GREAT OPPORTUNITY, AND A CHALLENGE. NOT EVERY CHARACTER HAS TO BE SYMMETRICAL; IN THIS EXAMPLE, THE ROBOT HAS ONLY ONE EYE AND ONE WHEEL.

## 03\_18: FX

SPLASHES HAVE STRUCTURE. DRAW A SHAPE LIKE THIS FIRST:

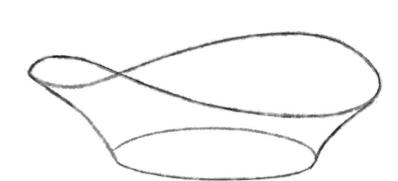






STYLIZED CLOUDS (WITH ORNATE CURLS).

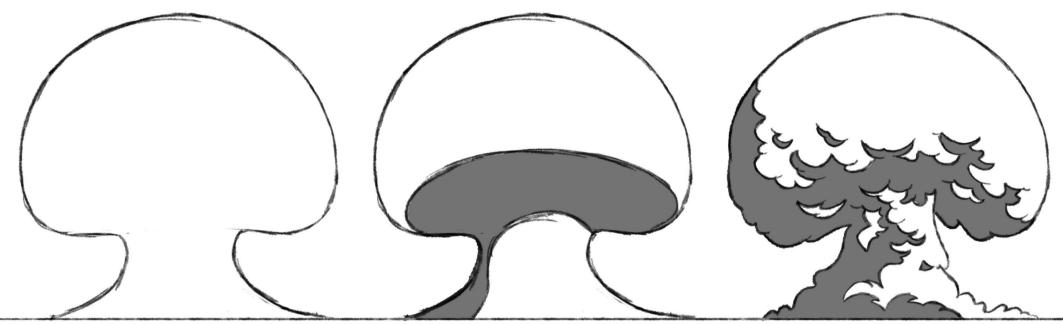
STYLIZED CLOUDS (WITH FLAT BOTTOM).













A NATURAL LOOK, WITH SHADED AREAS FOR VOLUME.

FIRE IS SINUOUS. SHAPES CAN TEAR OFF AND QUICKLY DISSIPATE.





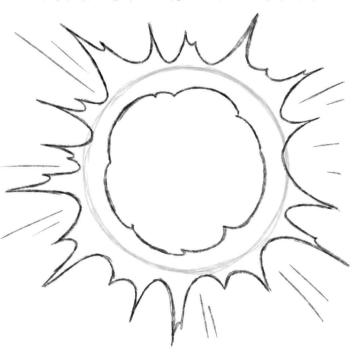
FIRE CAN ALSO BE ANTHROPOMORPHIZED.



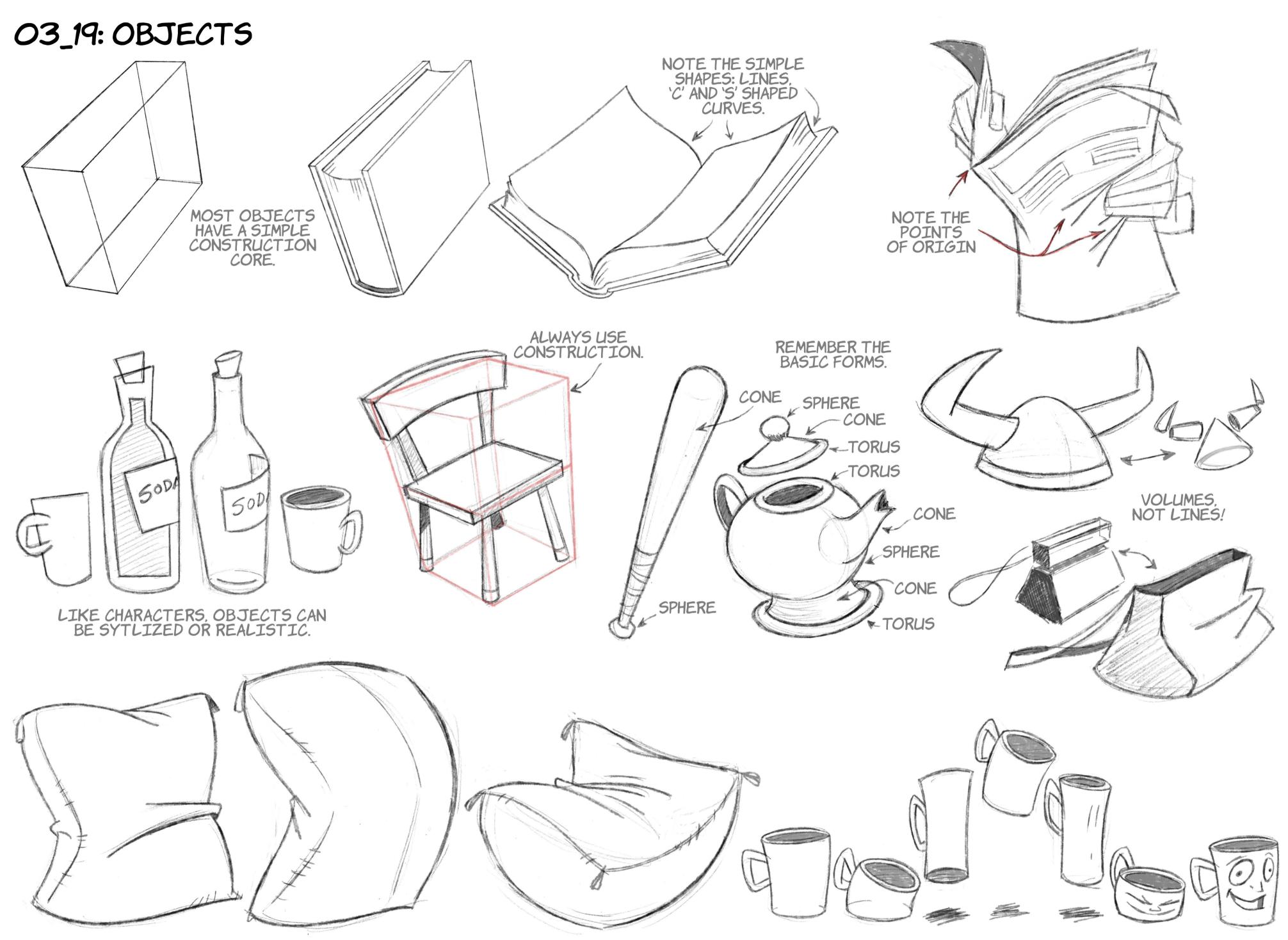
OCEAN FORMS FLOW INTO ONE ANOTHER; SEPARATE WATER INTO COLORED BANDS.



DRAW IMPACT VOLUME.



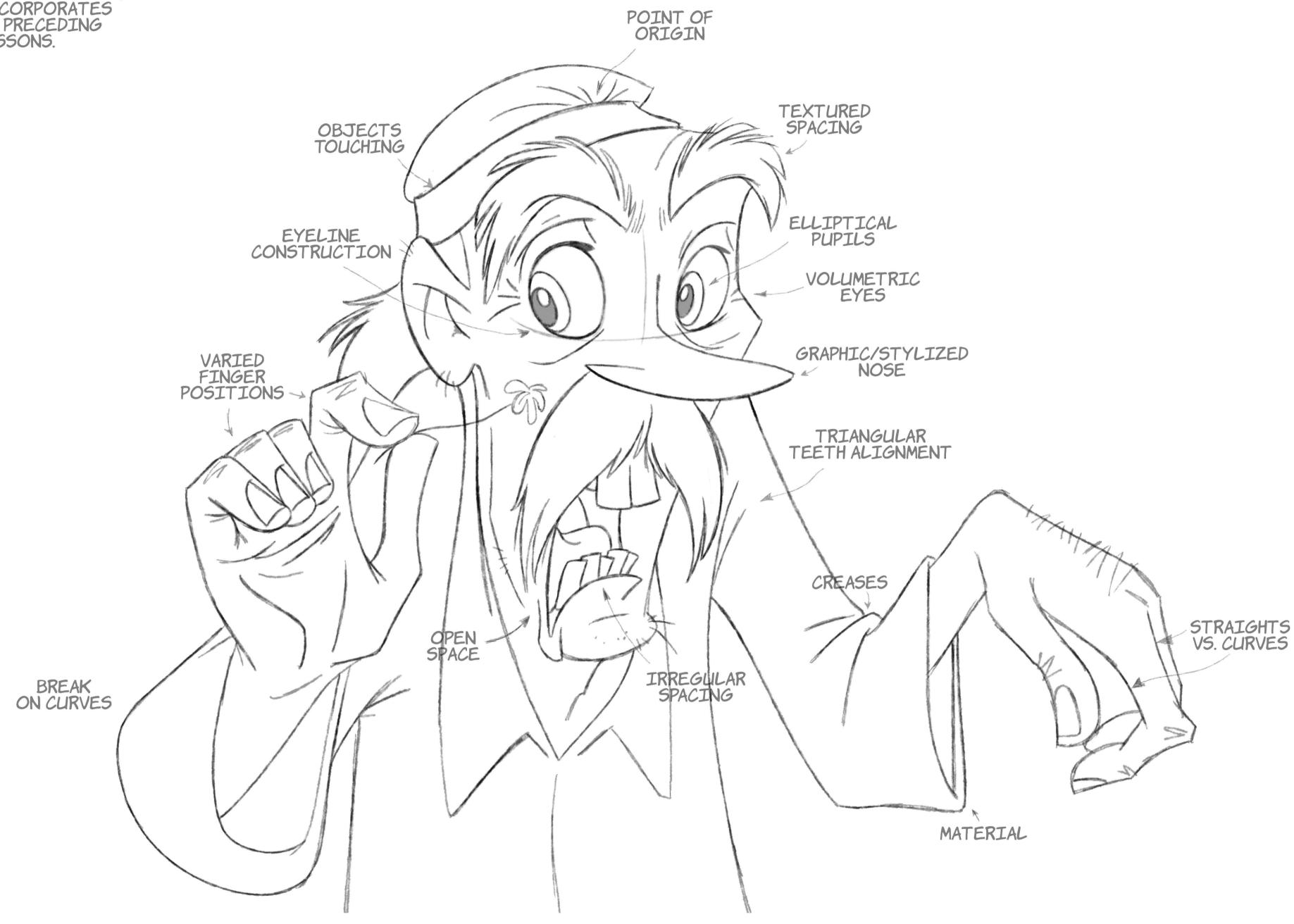
ADD STRUCTURE AROUND THAT SHAPE.



IN CARTOONS, INANIMATE OBJECTS CAN POSSESS EMOTIONS, OR PERSONALITY.

# 04\_01: BRINGING IT ALL TOGETHER

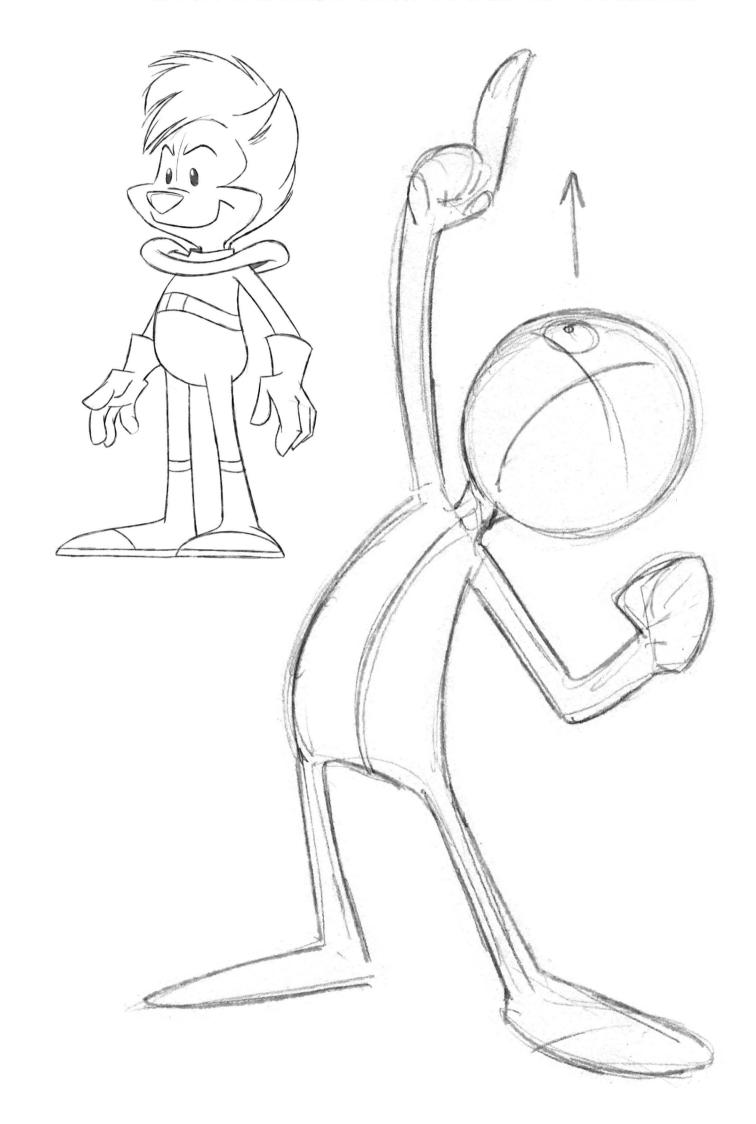
FINISHED EXAMPLE OF A ROUGH CHARACTER STUDY, WHICH INCORPORATES ALL THE PRECEDING LESSONS.



#### 05\_01: ROUGH CONSTRUCTION

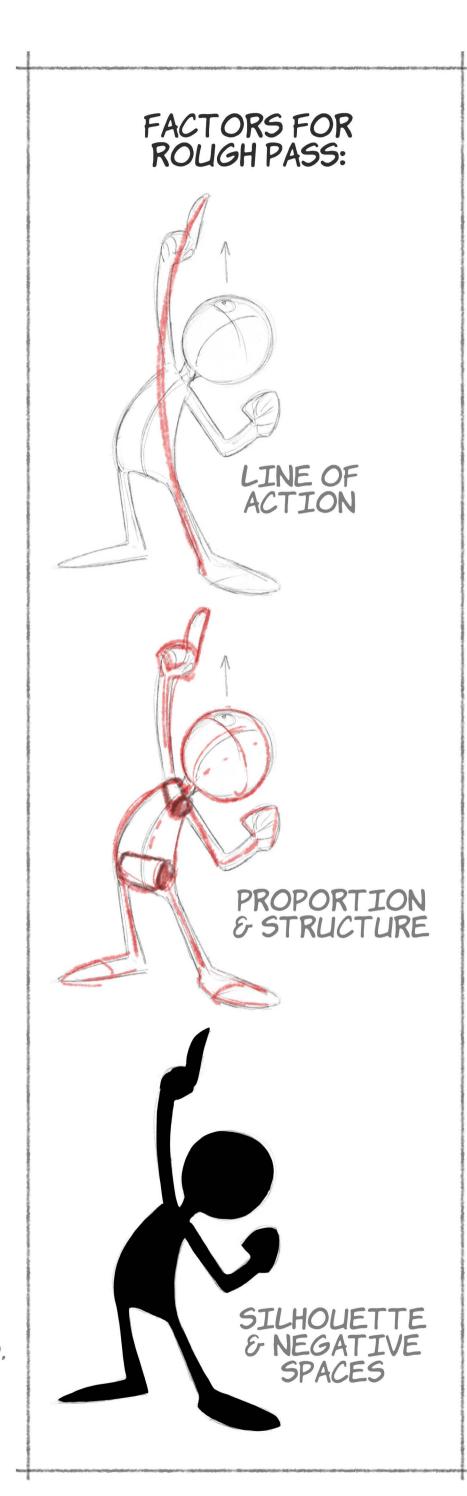
THE CHARACTER WE'LL LATER USE IN 05\_05 WILL NOW BE DRAWN IN A DYNAMIC POSE.

THE FIRST DRAWING MUST BE LOOSE, WITH AS LITTLE SECONDARY DETAIL AS POSSIBLE.



DRAW THESE GESTURE SKETCHES QUICKLY AND WITHOUT MUCH ERASING. IF YOU DON'T LIKE A POSE OR A DRAWING, JUST START A NEW ONE.

YOU SHOULD BE ABLE TO DO ONE OF THESE SKETCHES IN ABOUT A MINUTE.





WHEN ROUGHING, THE FOCUS IS ON PORTRAYING THE EMOTION AND THE PHYSICAL ACTION.

WHAT IS THE CHARACTER THINKING?

WHAT IS THE CHARACTER FEELING?

WHAT IS THE CHARACTER DOING?

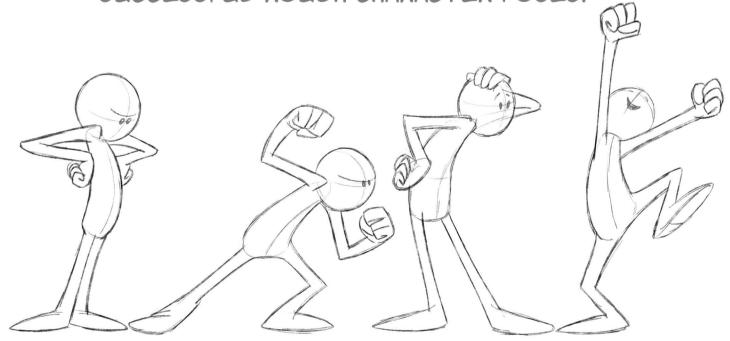
DRAW FAST. DRAW LOOSE.

BESIDES THE ACTION AND THE FEELINGS YOU ARE TRYING TO DRAW, WATCH OUT FOR THE LINE OF ACTION, PROPORTION, AND THE SILHOUETTE AND NEGATIVE SPACES.



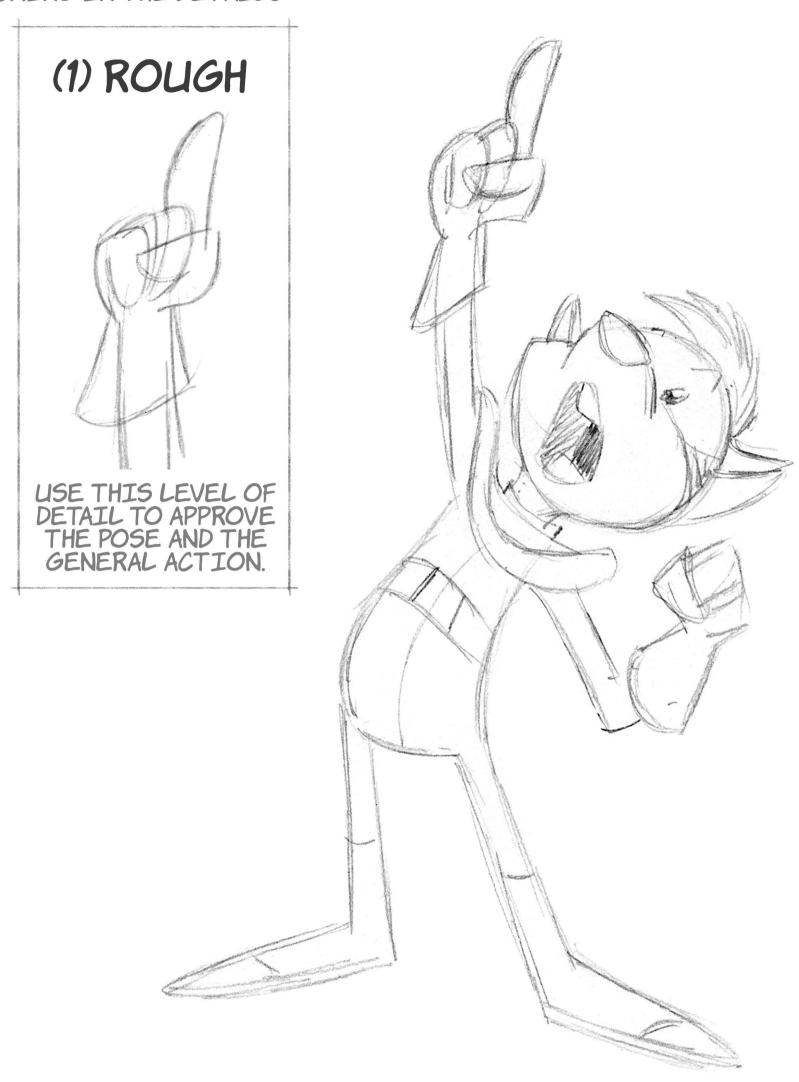
THE ROUGH GESTURE DRAWING WILL BE THE BASIS FOR THE NEXT DRAWING, SO WATCH THE PROPORTIONS, AS YOU DON'T WANT THE MODEL TO DRIFT TOO FAR.

FINDING THE BALANCE BETWEEN LOOSENESS AND CONTROL WILL ALLOW YOU TO CREATE SUCCESSFUL ROUGH CHARACTER POSES.



# 05\_02: TIE-DOWN

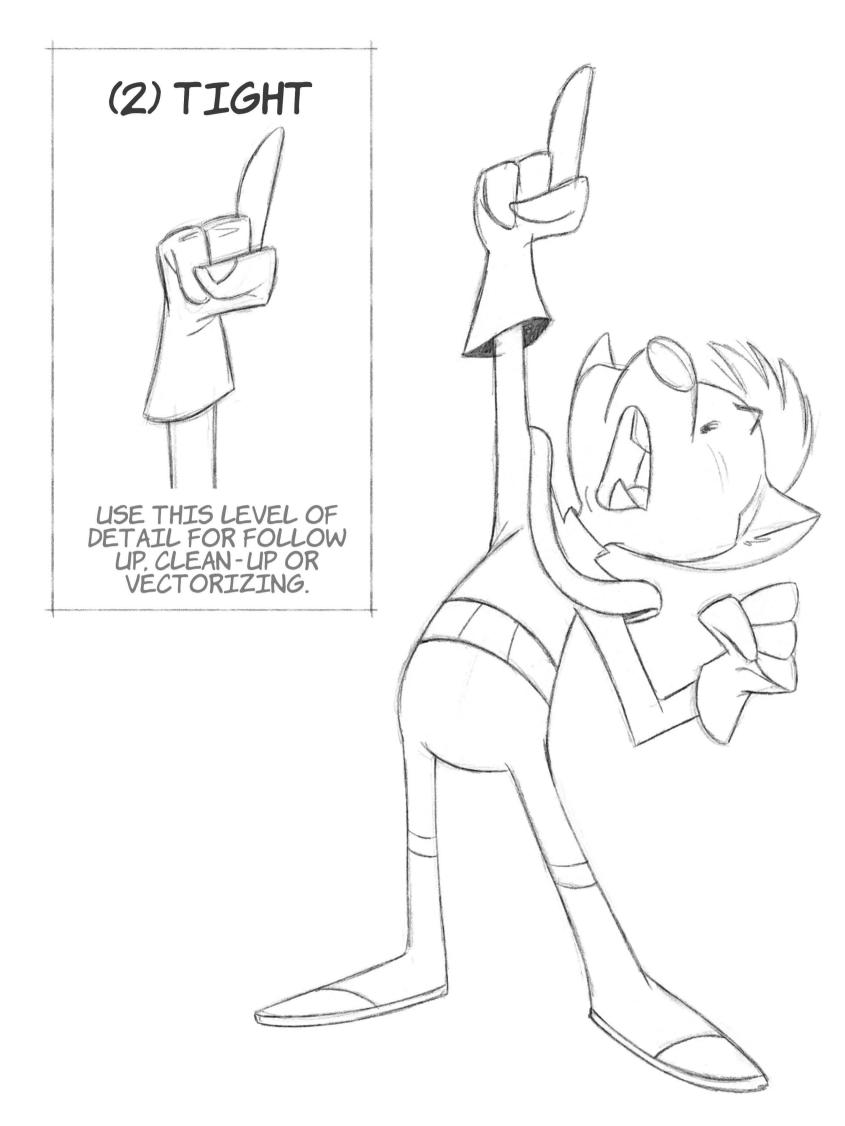
BLOCKING IN THE DETAILS



AFTER THE GESTURE DRAWING, THE NEXT PASS IS THE TIE-DOWN.

ADD THE DETAILS. NOTE THE LOOSE HANDS AND FINGERS: MANY LINES ARE LIGHT, OR HAVE MULTIPLE STROKES. NEVERTHELESS, THE FIGURE IS RECOGNIZABLE.

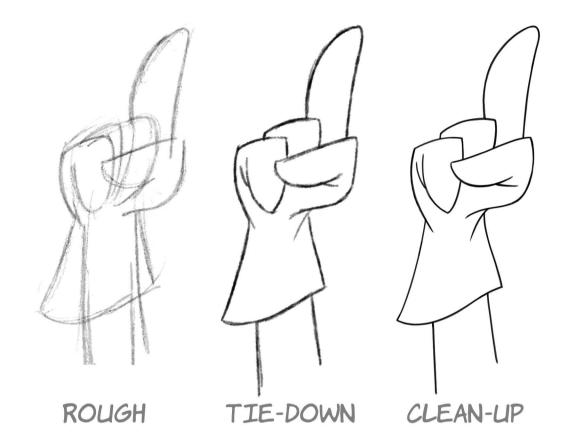
MANY ANIMATED SCENES HAVE BEEN APPROVED IN THIS ROUGH FORM.



A FURTHER PASS TIGHTENS IT. REFINE THE DETAILS. THIS LEVEL OF WORK IS USUALLY NEEDED BEFORE CLEANING UP THE IMAGE FOR PAINTING.

#### 05\_03: CLEAN-UP

PREPARING THE DRAWING FOR COLOR



TRADITIONALLY. CLEAN-UP WAS THE PROCESS OF REDRAWING THE TIE-DOWNS WITH A CLEAN BLACK PENCIL DRAWING. THIS WOULD THEN BE PHOTOCOPIED ONTO A TRANSPARENT CEL AND PAINTED.

TODAY, CEL PAINTING IS KNOWN AS DIGITAL INK AND PAINT (DIP). THERE IS STILL A NEED FOR CLEAN-UP DRAWINGS ... NOT JUST ON ANIMATED PROJECTS, BUT ALSO ON ART FOR PRINT MEDIA.

PROGRAMS LIKE TOONBOOM HARMONY, ADOBE FLASH AND OTHERS ALLOW YOU TO DRAW DIRECTLY INTO THE COMPUTER, BYPASSING THE NEED FOR PAPER. THIS CAN ALLOW A TIE DOWN TO BE USED AS FINAL ART, IF IT'S REASONABLY CLEAN.

A CLEAN TIE-DOWN OFTEN HAS MORE VITALITY THAN A CLEAN-UP WITH A SINGLE PERFECT LINE.

> ALSO, IT'S MUCH FASTER TO DRAW A CLEAN TIE-DOWN THAN A CLEAN-UP.

HERE IS A GOOD EXAMPLE OF A TIE-DOWN THAT'S BEEN USED AS FINAL ART.





THE ROUGH DRAWING TO BE CLEANED UP.



HOW NOT TO CLEAN-UP: A DEAD LINE OF ONE WEIGHT CLEAN-UP. THE LINE WIDTH HAS BEEN MINDLESSLY TRACED VARIES, AND THE DRAWING OVER THE ROUGH, KILLING AND FLATTENING IT.



COMPARE WITH A STRONGER HAS BEEN CAREFULLY REFINED AND IMPROVED.



THE AREAS OF MOST CHANGE ARE MARKED IN RED.



ANOTHER METHOD IS TO CREATE A VECTOR-BASED CLEAN-UP OF THE DRAWING IN A PROGRAM LIKE ADOBE ILLUSTRATOR OR FLASH, OR TOONBOOM HARMONY. THIS IS BEYOND THE SCOPE OF THIS COURSE.

## 05\_03: CLEAN-UP

PREPARING THE DRAWING FOR COLOR



RULES OF GOOD CLEAN-UP: KEEP THE DRAWING ON MODEL (OR FIX IT IF IT'S OFF).

DON'T JUST TRACE. THINK! PUSH THE DESIGN A LITTLE (NOT BY ENOUGH TO WRECK THE DRAWING, JUST ENOUGH TO PUT A LITLE EXTRA LIFE INTO THE DRAWING). FIX SUBTLE MISTAKES LIKE TANGENTS AND PARALLELS.

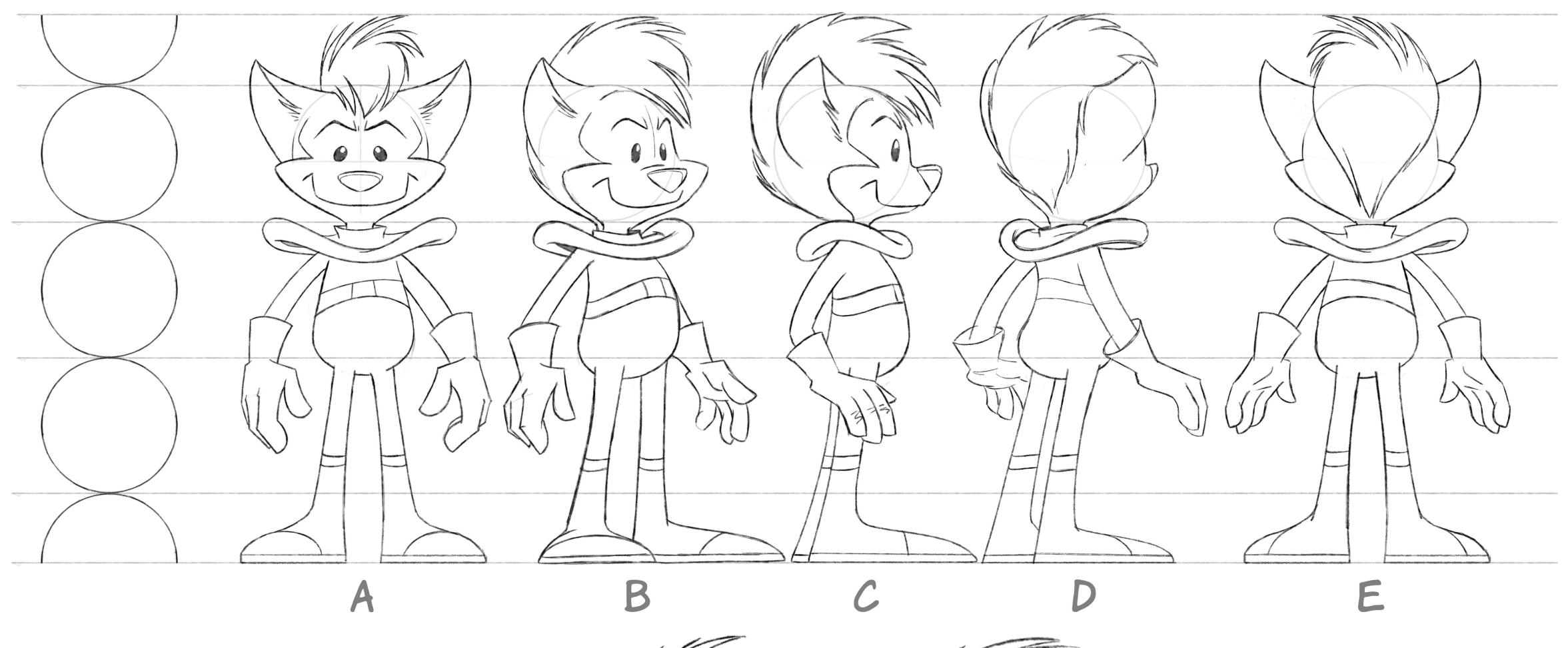
ADD BREAKS TO CURVES WHERE APPROPRIATE, AND TAKE CARE NOT TO ERASE ANY THAT ARE IN THE DRAWING ALREADY.

## 05\_04: PLUSSING

IN A PREVIOUS CHAPTER WE SAW HOW TO USE EXAGGERATION TO RADICALLY IMPROVE A ROUGH POSE:



## 05\_05: MODEL SHEET (TURNAROUND)

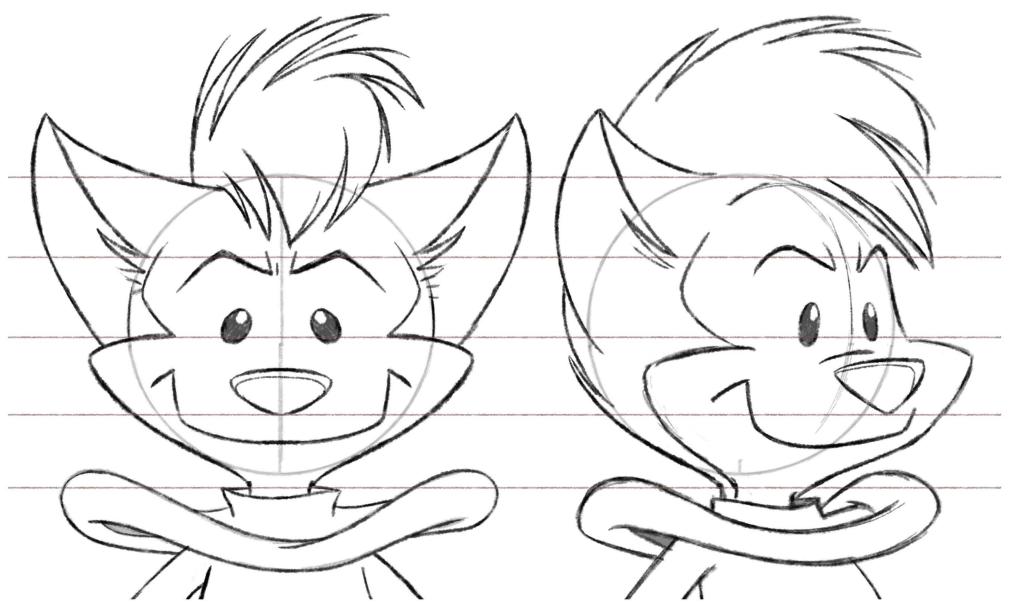


A MODEL SHEET DISPLAYS THE CHARACTER IN COMMON POSES, IN DIFFERENT DIRECTIONS.

IT'S A GOOD IDEA TO GIVE THE CHARACTER A FIXED HEIGHT, BASED ON HEAD OR SKULL SIZES. IN THIS EXAMPLE, THE FIGURE IS 4 HEADS TALL; THE TUFT OF HAIR ON THE HEAD IS 1/2 SKULL HEIGHT; THE TORSO IS APPROXIMATELY 1 SKULL HEIGHT, THE WRISTS ARE 1 AND 1/2 HEADS FROM THE GROUND, ETC.

THESE PROPORTIONS ARE A RULE OF THUMB; DO NOT FOLLOW THEM TOO STRICTLY, AS THE CHARACTER WILL BE SQUASHED, STRETCHED AND DISTORTED. THIS WILL CHANGE THESE PROPORTIONS FROM THE IDEAL.

DO NOT MEASURE YOUR CHARACTER DRAWINGS WITH A RULER. EYEBALL OR ESTIMATE THESE PROPORTIONS.

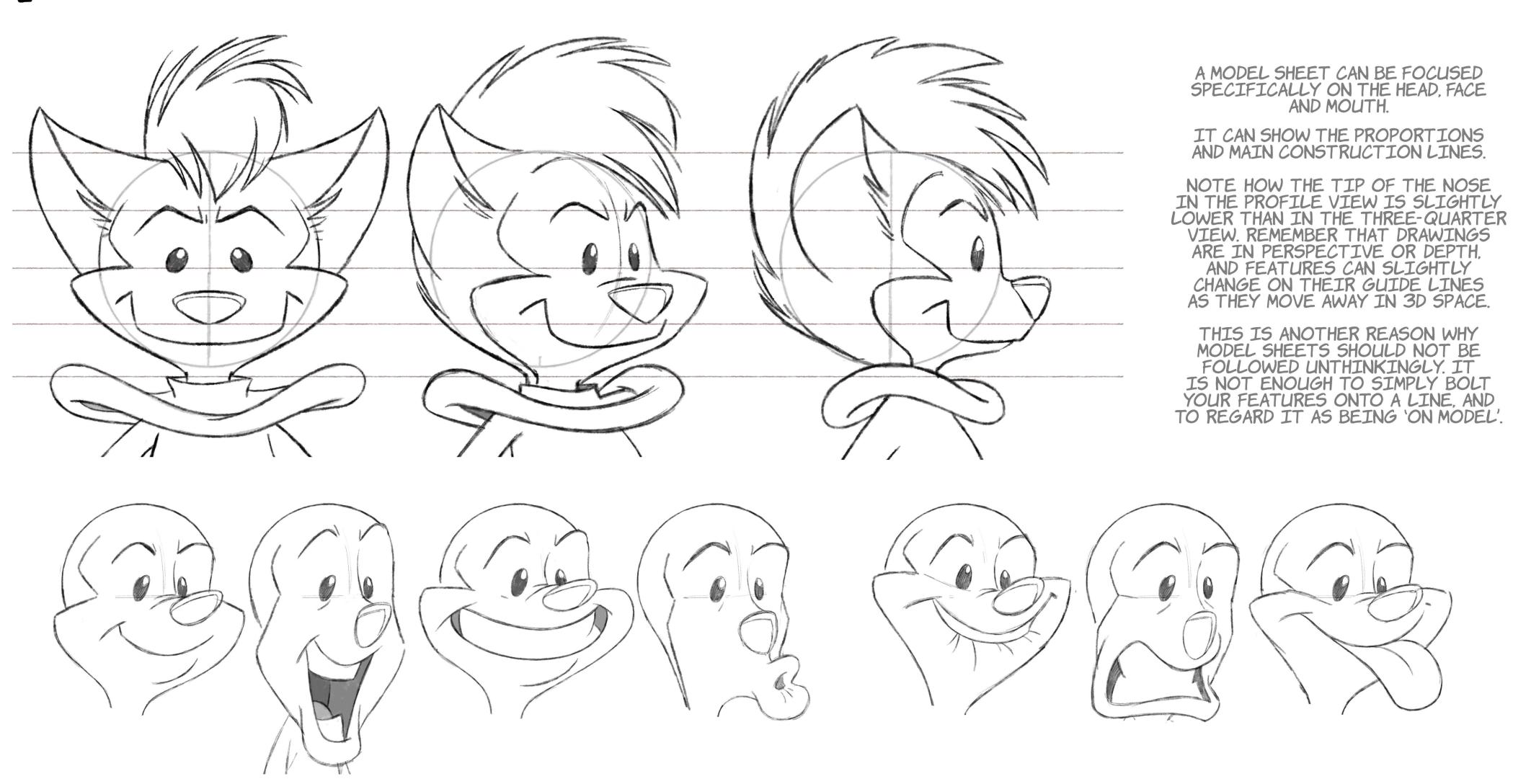


MODEL SHEETS CAN ALSO SHOW CLOSEUPS OF AREAS LIKE HEADS, HANDS, MOUTHS OR ANY PARTICULAR REGION FOR FURTHER INSTRUCTION ON HOW TO DRAW THEM.

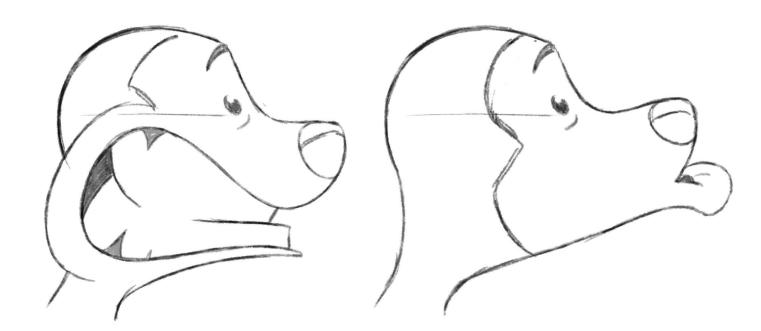
HERE WE SEE THE CORRECT SPACING OF THE EYELINE, BASE OF NOSE, AND THE ROUGH PLACEMENT OF THE EYEBROWS.

AGAIN, THESE WILL VARY AS YOU MODIFY THE CHARACTER'S POSE OR EXPRESSION, SO UNDER NO CIRCUMSTANCE SHOULD YOU REGARD THESE POSITIONS AS ABSOLUTE.

## 05\_05: MODEL SHEET (HEADS & MOUTHS)



ANY NUMBER OF MOUTH SHAPES/DESIGNS CAN BE INCLUDED ON THE MODEL SHEET. CREATE AS MANY MODEL SHEETS AS YOU THINK THE CHARACTER REQUIRES.



MODEL SHEETS CAN CONTAIN SOLUTIONS TO PARTICULAR DESIGN ISSUES, SUCH AS THE CHEEK AREA IN EXTREME EXPRESSIONS.

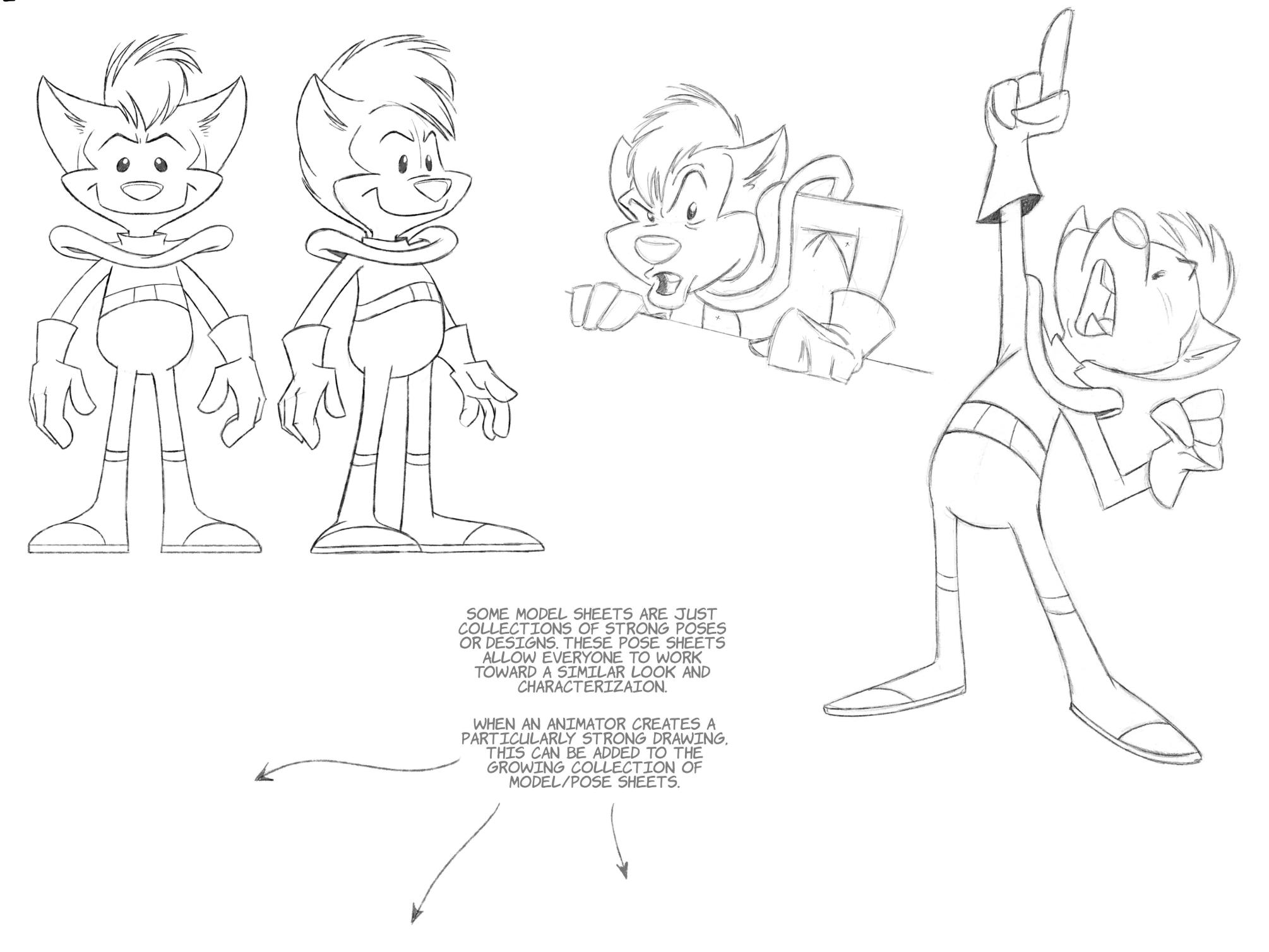
BY SOLVING PREDICTABLE DESIGN PUZZLES, SUCH AS THE APPEARANCE OF THE FACE IN UNUSUAL ANGLES, YOU ENSURE CONSISTENT DESIGNS FROM EVERYONE ON YOUR TEAM.







# 05\_05: MODEL SHEET (POSES)



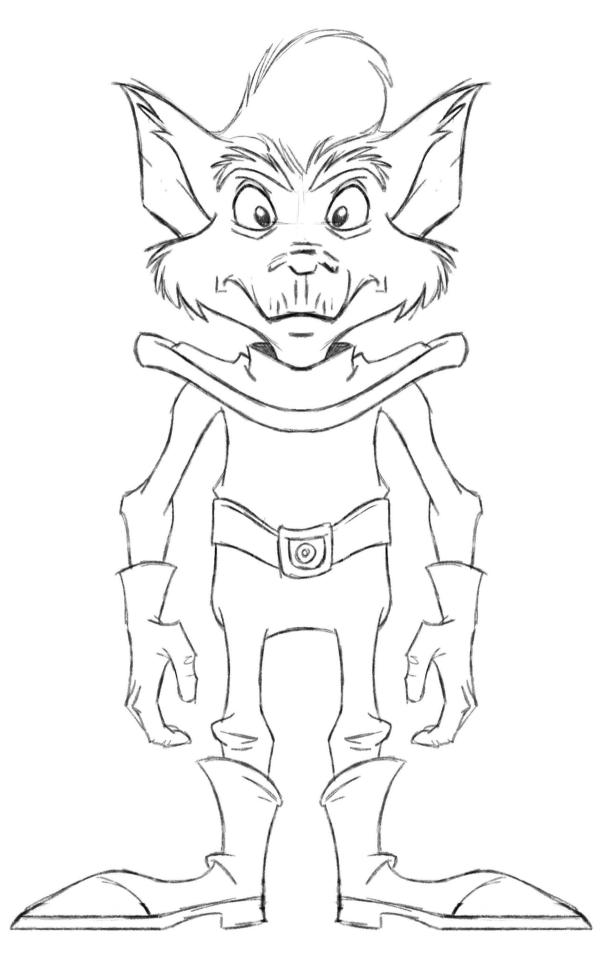
# 05\_06: STYLES

THE SAME CHARACTER CAN BE TREATED WITH VARIOUS DEGREES OF REALISM OR CARTOONINESS.



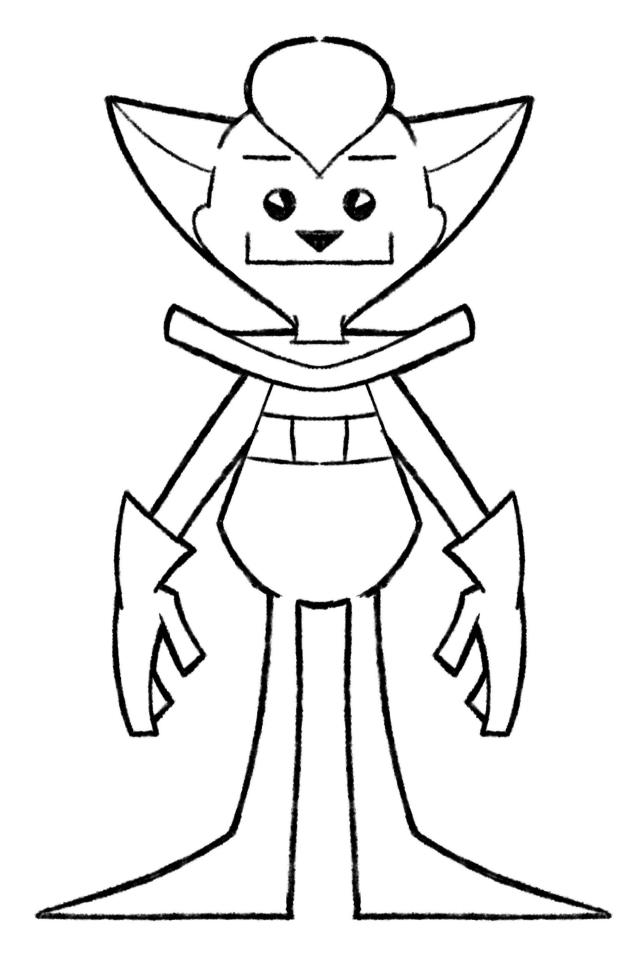
CARTOONY

THE CLASSIC (1940S-ERA) STYLE.



REALISTIC

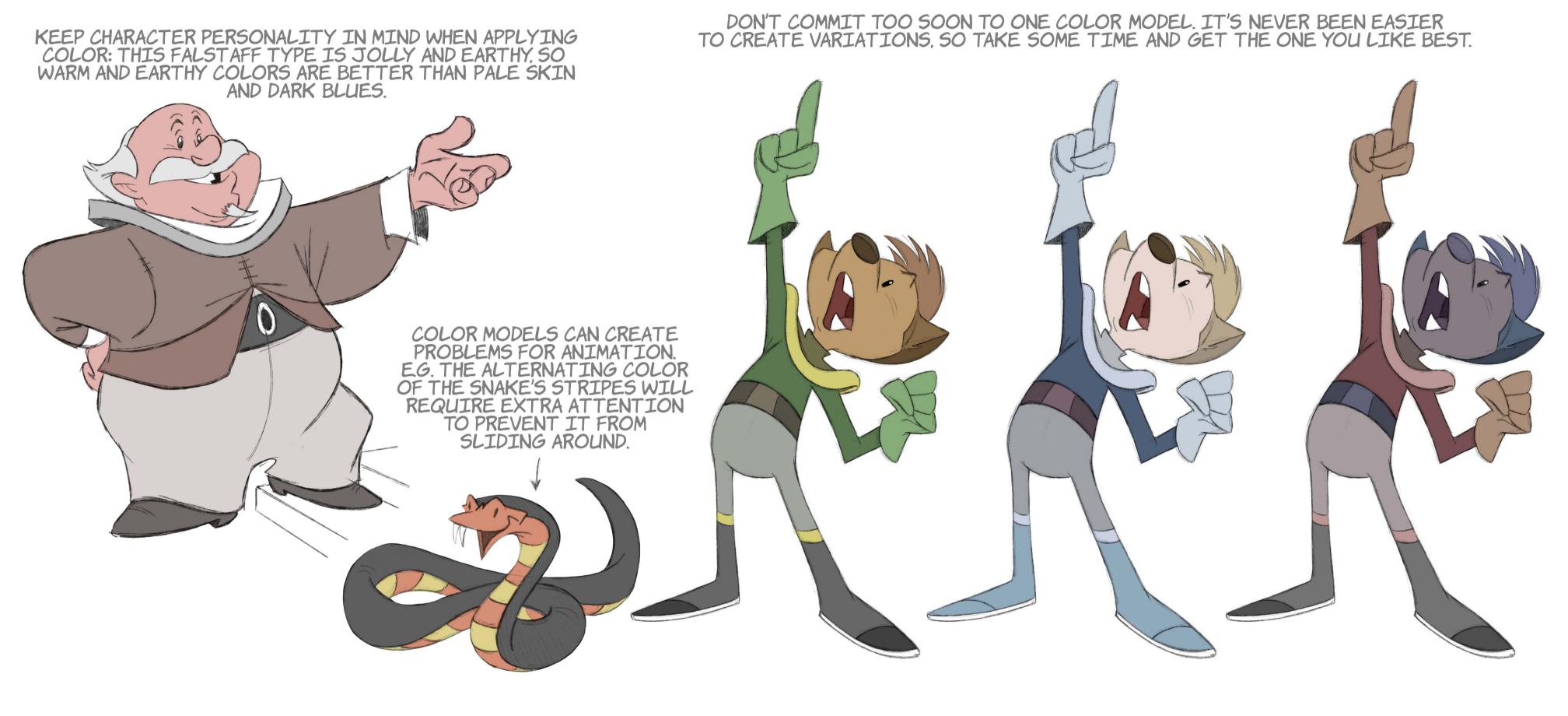
MORE 'S' CURVES; MORE FINE HAIR DETAILS; THE EYES HAVE WHITES; MORE CREASES.



STYLIZED/FLAT

THE CHARACTER IS STRIPPED DOWN TO ITS MOST BASIC GRAPHIC SHAPES.

## 05\_07: COLOR



A CHARACTER WITH A SINGLE BODY COLOR CREATES PROBLEMS WITH MANY POSES AND SILHOUETTES.

WHEN ALL ONE COLOR, THE HAND ON HIS HIP CAN'T BE SEEN.

SOLUTION 1: USE A WHITE INK LINE.

SOLUTION 2: USE A COLOR SEPARATION TO CREATE A NEW COLOR AREA.



## 05\_07: COLOR



## 05\_07: COLOR

THINK ABOUT YOUR CHARACTER AND THE BEST WAY TO USE COLOR TO CONVEY ITS PERSONALITY.

THIS WAS MEANT TO BE A BURNED-OUT SIXTIES MAN; THE HIPPIE WITH A HEART OF GOLD.

THE PALE PURPLE MIGHT SUGGEST A PERSON WHO IS UNCONVENTIONAL, AS DOES THE YELLOW HEADBAND, WHICH IS A NICE COLOR CONTRAST WITH THE SHIRT.

THE ONLY GREEN IN THE IMAGE IS THE FLOWER; THIS HELPS TO CONVEY THE EYE'S FOCUS ON THE PLANT.

THIS COULD HAVE BEEN ACCENTUATED FURTHER BY COLORING THE FLOWER A BRIGHTER COLOR, OR RED.

