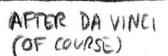
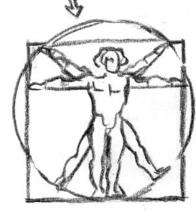
# A LITTLE ADVICE ON MARSING FIGURES LOOK STONAL THREE-DIMENSIONAL

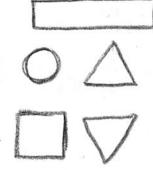
WE SPEND A LOT
OF TIME STUDYING
THE PROPORTIONS
OF THE HUMAN BODY.
AND SURE, ITS
USEFUL TO LEARN,
THAT INFORMATION.

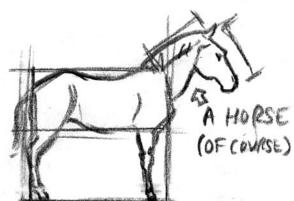




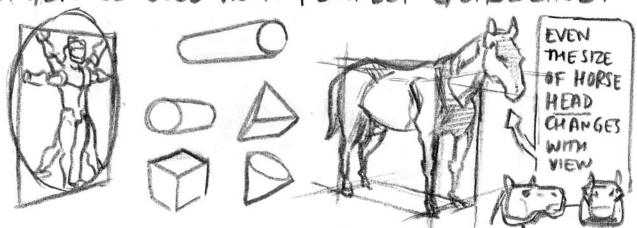
APPLY THESE DIRECTLY
TO OUR DRAWING. THE
APPARENT SIZES OF
BODY PARTS - AND OTHER
OBJECTS - ARE ALSO
AFFECTED BY PERSPECTIVE
AND POINT OF VIEW.

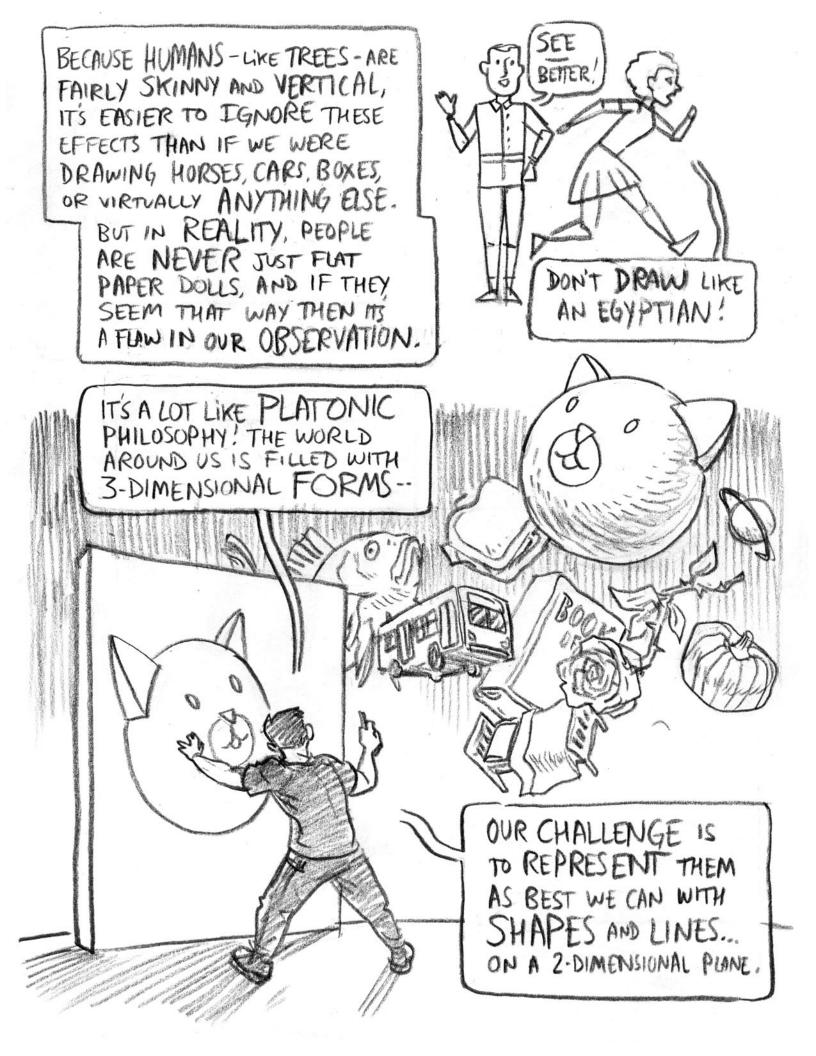






AS OBJECTS TURN IN RELATION TO THE VIEWER, NEW SIDES COME INTO VIEW, AND THE "DIAGRAM" PROPORTIONS WE SEE IN A PURE FRONT OR SIDE VIEW CAN NO LONGER BE USED AS A PERFECT GUIDELINE.



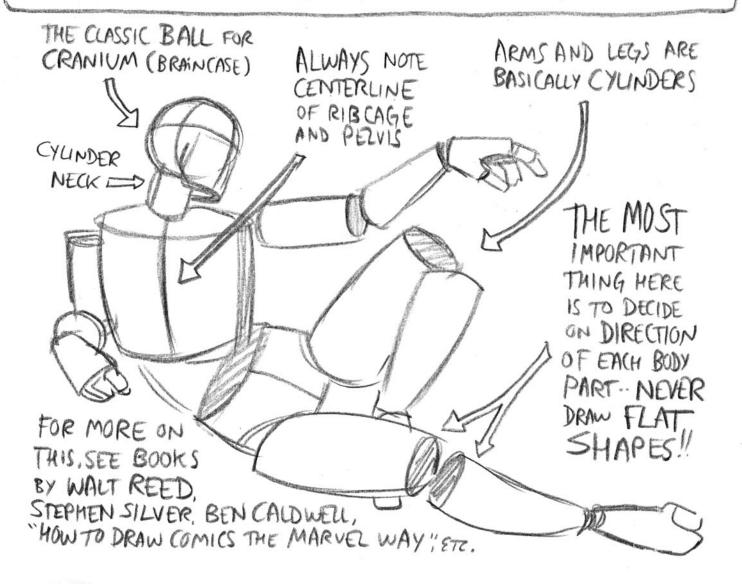


IF THAT'S OUR
GOAL, WHAT
TOOLS AND
TECHNIQUES
CAN HELPUS
A(HIEVE IT?



WORKING FROM PHOTOS
MEANS WE DON'T NEED
TO TRANSLATE 3D
REALITY INTO 2D SHAPE.
--WE JUST NEED TO
COPY THE SHAPES
ACCURATELY, BUT
THAT'S ACTUALLY NOT
AS EASY AS IT SOUNDS...

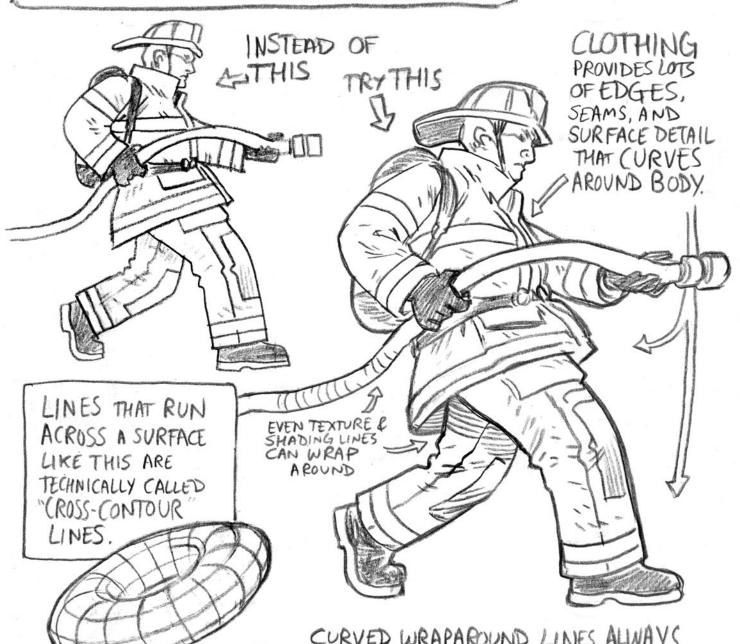
FOR COMICS AND ANIMATION, H'S USUALLY BEST TO CONSTRUCT (BUILD UP) FIGURE FROM SIMPLE 3D FORMS.



WHEN IT COMES TO THE FINAL LINE DRAWING, THERE ARE SOME SPECIFIC DETAILS WE CAN INCLUDE TO ENHANCE THE THREE-DIMENSIONAL EFFECT, SUCH AS...

#### WRAPAROUNDLINES

OR "VISUAL ANCHORS" AS PER GRIZ+NORM



YOU'LL SOMETIMES
SEE THESE ON 3D
MODELS, BUT CLOTHES
GIVETHEM TO US
FOR FREE!

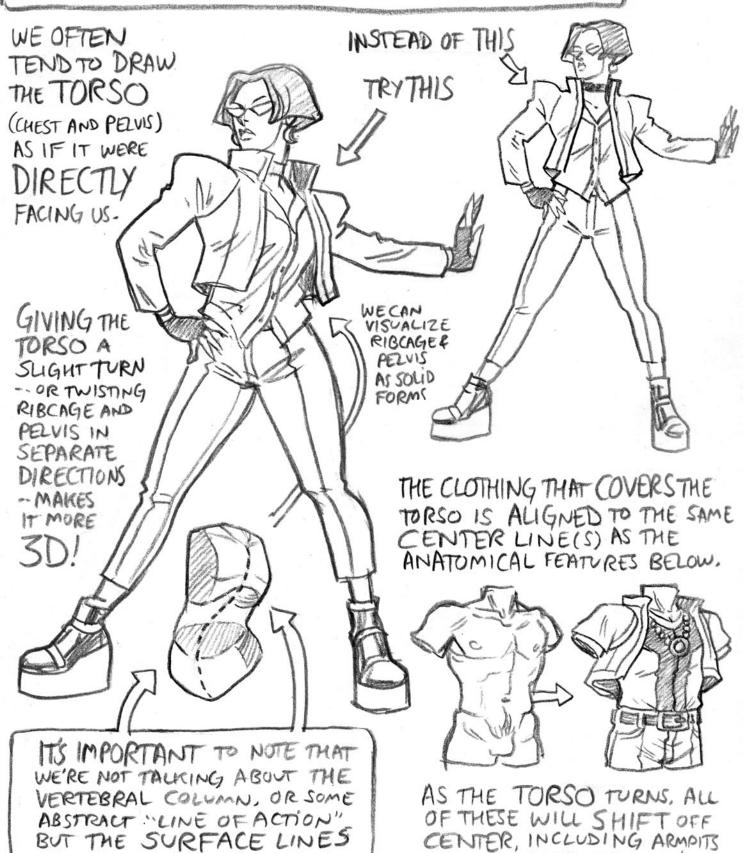
CURVED WRAPAROUND LINES ALWAYS
MAKE THE FIGURE LOOK MORE 3D; STRAIGHT
LINES WILL ALWAYS MAKE IT LOOK FLAT.



THEN WRAP CLOTHING UNES IN SAME DIRECTION!

VISIBLE ON NUDE TORSO!

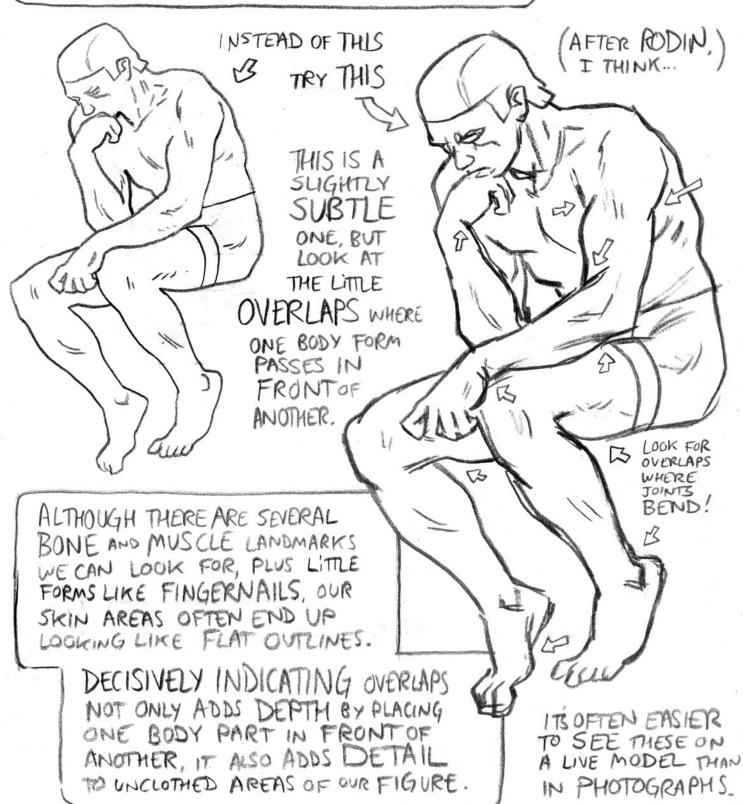
### CENTERLINES OF THE TORSO



AND SLEEVE SEAMS!

OTHER THAN HAIRLINES AND FACIAL FEATURES, UNCLOTHED BODIES DON'T PRESENT A LOT OF WRAPAROUND LINES. INSTEAD, THE MAIN THING TO LOOK FOR IN EXPOSED SKIN IS.

### OVERLAPPING FORMS



#### ONE FINAL THING WE SHOULD PAY ATTENTION TO IS ..

## GROUND PLACEMENT

