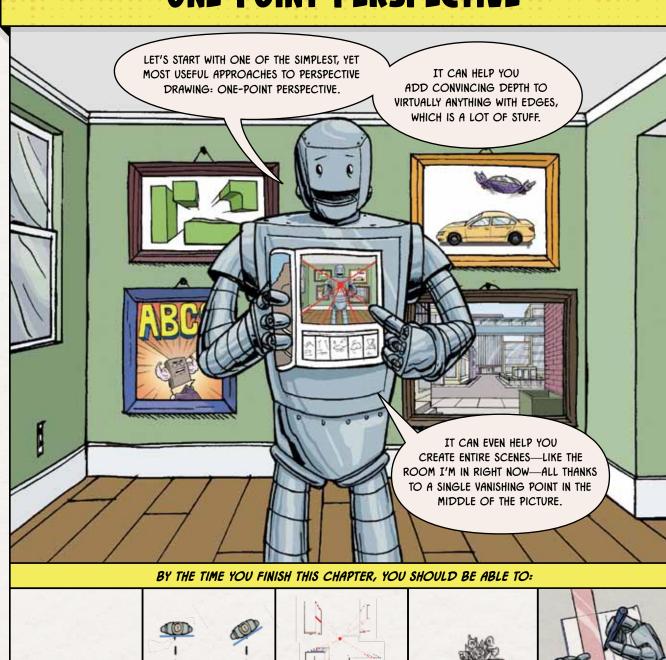
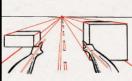
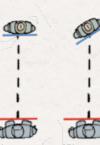


ONE-POINT PERSPECTIVE

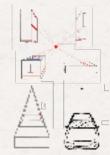




IDENTIFY A ONE-POINT PERSPECTIVE SYSTEM.



POINT RECOGNIZE WHEN AND WHEN NOT TO USE ONE-POINT PERSPECTIVE.



DRAW A VARIETY OF OB-JECTS WITH ONE-POINT PERSPECTIVE DEPTH.



FIND THE CENTER OF RECTANGLES IN PERSPECTIVE.

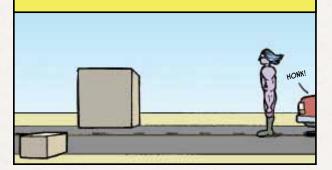


DRAW VERTICAL AND HORIZONTAL LINES CONSISTENTLY.

ONE-POINT PERSPECTIVE OVERVIEW

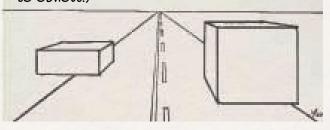
LET'S BEGIN WITH A BRIEF EXPLANATION OF HOW ONE-POINT PERSPECTIVE WORKS.

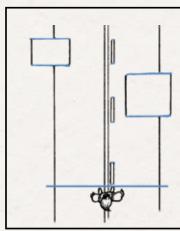
SAY YOU'RE IN THE MIDDLE OF THE ROAD, LOOKING STRAIGHT AHEAD AT SOME BOXES, AND YOU WANT TO DRAW WHAT YOU SEE.



AS LONG AS YOU KEEP LOOKING STRAIGHT OUT, YOUR DRAWING WOULD LOOK SOMETHING LIKE THIS.

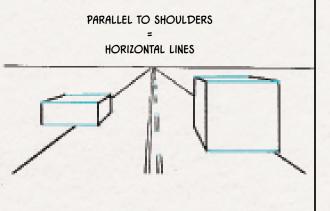
NOTICE THAT THE VERTICAL EDGES OF THE BOXES ARE DRAWN WITH VERTICAL LINES. (SOMETIMES IT'S NOT SO OBVIOUS.)

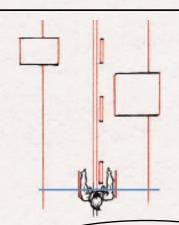




ANY EDGES THAT GO STRAIGHT ACROSS YOUR FIELD OF VISION (SHOWN IN BLUE) SHOULD BE DRAWN WITH PERFECTLY HORIZONTAL LINES.

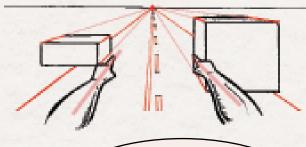
YOU COULD ALSO THINK OF THESE LINES AS BEING PARALLEL TO YOUR SHOULDERS (AS LONG AS YOU DON'T TURN YOUR HEAD OR SHIFT YOUR EYES).





OTHER EDGES ARE PARALLEL TO YOUR LINE OF SIGHT AND **PERPENDICULAR** TO YOUR SHOULDERS.

THESE LINES WOULD NEVER INTERSECT IN REALITY, NO MATTER HOW LONG THEY ARE... ...BUT IN YOUR *DRAWING* THEY *WOULD*, AS IF THEY'RE ALL LINED UP TO A SINGLE *VANISHING* POINT (V.P.) IN THE MIDDLE OF THE PICTURE.



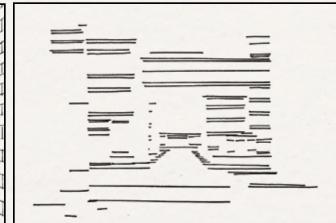
THIS LAST BEHAVIOR, WHERE PARALLEL LINES APPEAR TO GO TO A VANISHING POINT, IS CALLED **CONVERGENCE**.

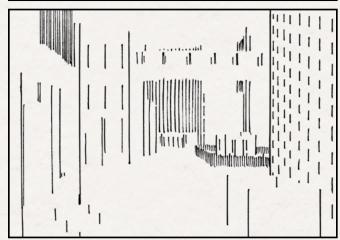
AND CONVERGENCE TO A SINGLE
VANISHING POINT IN THE MIDDLE OF
THE PICTURE, ALONG WITH HORIZONTAL
AND VERTICAL LINES, IS THE ESSENCE OF
ONE-POINT PERSPECTIVE.

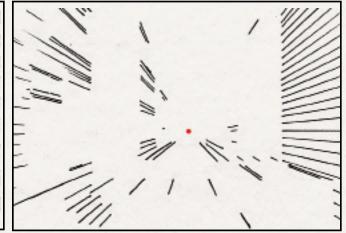
USING ONE-POINT PERSPECTIVE

BECAUSE OF THE WAY HUMANS HAVE BUILT AND ORGANIZED THE WORLD AROUND US, YOU CAN DRAW A LOT OF STUFF USING ONLY A VANISHING POINT AND VERTICAL AND HORIZONTAL LINES.





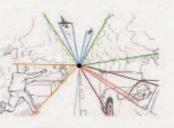




OF COURSE, THERE ARE USUALLY OTHER ANGLES AND CURVES MIXED IN, TOO. BUT ONE-POINT PERSPECTIVE CAN STILL BE USED TO CORRECTLY DRAW THE CORE SHAPE.



EVEN FOR OBJECTS WITH NO OBVIOUS RIGHT ANGLES, YOU CAN STILL USE ONE-POINT PERSPECTIVE TO ARRANGE THEM IN A SCENE.





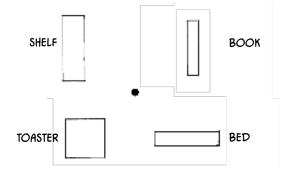
NOW THAT YOU KNOW HOW ONE-POINT PERSPECTIVE WORKS, LET'S PUT IT INTO ACTION!

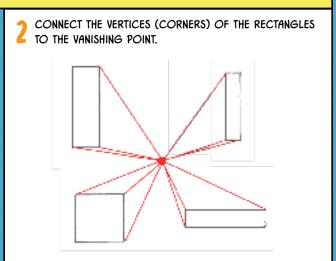
ONE-POINT PERSPECTIVE BOXES

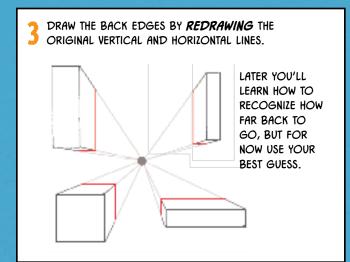
THE MOST COMMON STRATEGY FOR DRAWING OBJECTS IN ONE-POINT PERSPECTIVE IS TO START WITH A SIMPLE BOX. LET'S DRAW A FEW AND THEN TURN THEM INTO EVERYDAY OBJECTS.

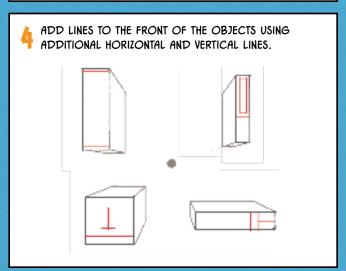
PLACE A VANISHING POINT IN THE MIDDLE OF YOUR PICTURE AND DRAW SOME RECTANGLES WITH HORIZONTAL AND VERTICAL LINES.

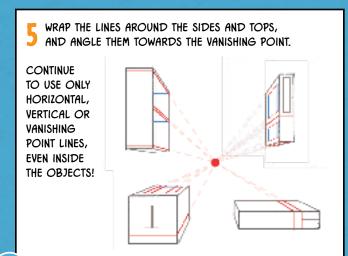
THESE SIMPLE RECTANGLES WILL BE ...

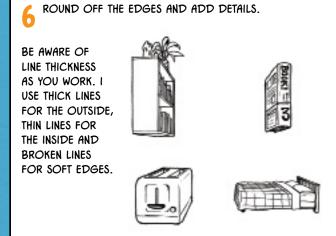








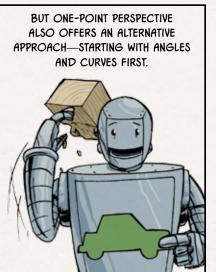




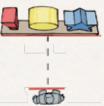
AN ALTERNATIVE APPROACH

TURNING RECTANGLES INTO BOXES AND THEN CARVING OUT ANGLES AND CURVES IS GREAT FOR DRAWING IN PERSPECTIVE AND IT'S NECESSARY WITH TWO-POINT AND THREE-POINT PERSPECTIVE.



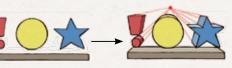


THAT'S BECAUSE ONE-POINT DEALS WITH OBJECTS THAT ARE SQUARE TO THE VIEWER.



WHICH MEANS YOU CAN DRAW THAT FRONT SURFACE AS IS, CURVES AND ALL.

THEN SIMPLY CONNECT THE **VERTICES TO THE** VANISHING POINT TO GET DEPTH.



A FUN EXERCISE TO PRACTICE THIS CONCEPT IS TO DRAW GROUPS OF RANDOM SHAPES AND LINES.

STARTING WITH THE FRONT SURFACE

OFTEN REQUIRES CONNECTING

CURVES TO THE VANISHING POINT.

BUT IT CAN BE UNCLEAR EXACTLY

WHERE TO CONNECT SUCH

SIMPLY ANCHOR ONE END

OF YOUR RULER ON THE

ROTATE IT UNTIL YOU HIT THE CURVE. THAT'S WHERE

VANISHING POINT AND

THE LINE GOES.

CORNERLESS EDGES.

CONNECT THEM TO A VANISHING POINT ...

...AND REDRAW THE BACK EDGES WITH THE SAME

ANGLES AND CURVES AS THE ORIGINAL ONES.



USE ADDITIONAL PERSPECTIVE LINES TO TURN THEM INTO SOMETHING COOL, LIKE SPACESHIPS! PEW, PEW, PEW!



ONCE YOU GET USED TO DRAWING IN PERSPECTIVE, YOU'LL DANCE BACK AND FORTH BETWEEN THE TWO APPROACHES. IN THE MEANTIME, HERE'S A GUIDELINE: IF IT'S A SINGLE, FLAT PLANE, THEN YOU HAVE THE OPTION OF STARTING WITH THE FRONT.





BUT IF THE SIDE PARALLEL TO YOUR SHOULDERS IS NOT FLAT, YOU SHOULD START WITH THE BOX AND ADD THE ANGLES IN LAST.





ONE-POINT DEPTH FOR WORDS AND SYMBOLS

USING ONE-POINT PERSPECTIVE TO ADD DEPTH TO TEXT AND SYMBOLS CAN HAVE A BIG IMPACT ON YOUR WORK, AND IT'S EASY TO DO. (EXCEPT FOR THE "S," BUT WE'VE GOT A TRICK FOR THAT!)

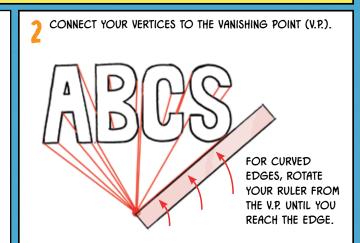
DRAW SOME BLOCK
LETTERS, AND PLACE A
VANISHING POINT IN THE
MIDDLE OF THE PICTURE.

ABCS

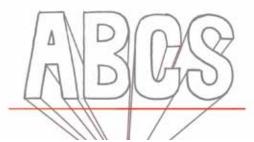
THEY DON'T HAVE TO BE STRAIGHT—CURVES OR SLANTS ARE OKAY, TOO.

<u> ABCS</u>

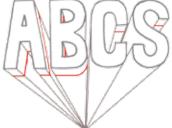
ABG&



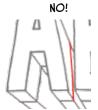
3 DRAW A LIGHT LINE AS A GUIDE FOR WHERE YOU'D LIKE THE DEPTH TO END. IF YOUR LETTERS HAVE AN OVERALL CURVE, THEN THIS GUIDE SHOULD MATCH IT.



NEXT, DRAW THE BACK EDGES OF THE LETTERS THE SAME AS THE FRONT, USING YOUR GUIDE LINE TO DRAW THE BOTTOMS FIRST. HOLD OFF ON THE TRICKIER CURVES UNTIL STEP 4.



AS YOU'RE WORKING, TRY TO MATCH THE EXACT ANGLE OF THE ORIGINAL LETTER'S LINES. SOMETIMES IT CAN BE TRICKY, LIKE THE SIDE OF THE "A."



FOR MORE DIFFICULT
CURVES, LIKE THE "S,"
DRAW A FEW ADDITIONAL
LIGHT LINES TO THE V.P. TO
HELP BREAK UP THE CURVE.

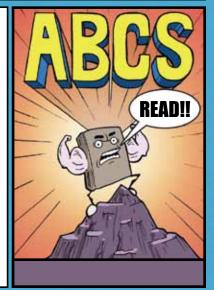
NOW YOU CAN SEE THE COMPLEX CURVE AS A SERIES OF SIMPLE ARCS. DRAW THEM ONE AT A TIME AND SMOOTH OUT.





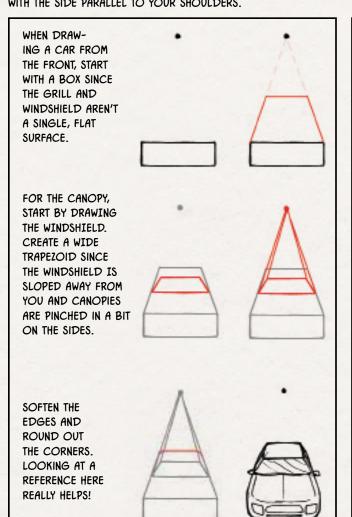
5 ENHANCE THE 3-D EFFECT BY SHADING ALL SURFACES THAT ARE FACING THE SAME DIRECTIONS WITH THE SAME COLORS OR TONES. A FEW OTHER LINES COMING FROM THE V.P. CAN ADD ENERGY.

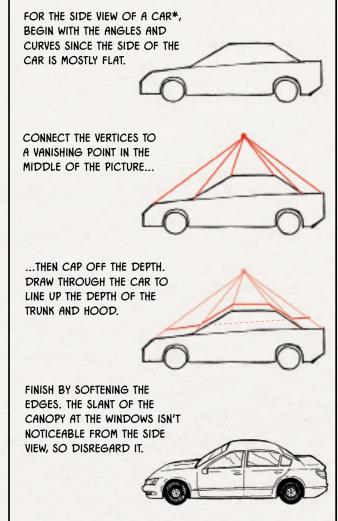
ONE-POINT PERSPECTIVE LETTERS ARE GREAT FOR DESIGN PURPOSES SINCE THE VANISHING POINT MAKES A GREAT FOCAL POINT.



CARS IN ONE-POINT PERSPECTIVE

DRAWING A CAR IN ONE-POINT PERSPECTIVE CAN BE A GREAT EXAMPLE OF WHEN TO CARVE STUFF OUT OF BOXES AND WHEN TO START WITH THE SIDE PARALLEL TO YOUR SHOULDERS.







THE HOOD IS

MUCH LONGER

THAN THE TRUNK.

*CARS COME IN ALL SHAPES AND SIZES, BUT HERE ARE SOME GENERAL TRENDS...

THE CANOPY IS ABOUT $^2/_{3}$ OF THE TOTAL LENGTH, OFTEN MORE.

THE BODY IS

ABOUT SIX TIMES
LONGER THAN
IT IS TALL, FLAT
ON THE BOTTOM
AND SLOPED ON
THE TOP.

WHEELS ARE CLOSE TO
THE FRONT EDGE. SAME
GOES FOR THE BACK.

ANGLE THE BACK A BIT AT

THE BOTTOM.

WHEEL WELLS
EXTEND MOST
OF THE WAY
AROUND THE
WHEEL ITSELF.

TRUCK BASICS:

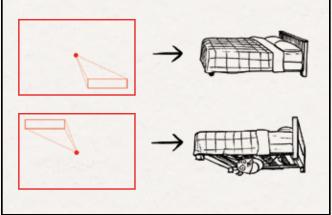
-WHEELS CENTERED BELOW HOOD AND TRUCK BED -SEVEN TIMES LONGER THAN TALL

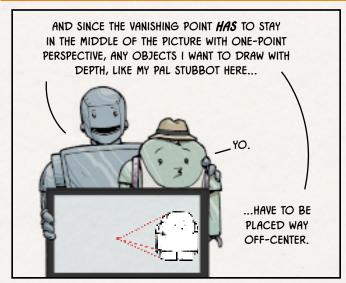
-BACK WHEELS SCOOTED IN MORE -STRAIGHT BODY, SLOPED HOOD

12

ONE-POINT PERSPECTIVE LIMITATIONS

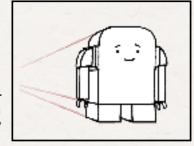
YOU MAY HAVE NOTICED THAT WHERE YOU PUT YOUR OBJECT ON THE PAGE DETERMINES WHICH SIDES YOU END UP DRAWING.



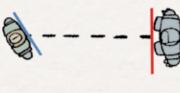


BUT WHAT IF I REALLY WANT HIM CENTERED, WHILE STILL REVEALING SOME OF HIS DEPTH?

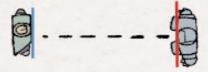
WELL, I COULD CHEAT AND MOVE THE VANISH-ING POINT AWAY FROM THE CENTER. IT WOULD LOOK OKAY...



INSTEAD, THIS PICTURE REALLY NEEDS TO BE DRAWN SO THAT STUBBOT IS NO LONGER SQUARE TO MY SHOULDERS. AND THAT MEANS THIS DRAWING NO LONGER FITS THE REQUIREMENTS FOR A ONE-POINT PERSPECTIVE DRAWING!



...BUT IT WOULD SUGGEST THAT STUBBOT'S SIDES AREN'T PERPENDICULAR.



INSTEAD, I'LL NEED TWO-POINT PERSPECTIVE.

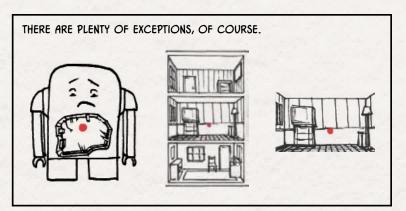
WE'LL GET TO THAT IN CHAPTER 3.

SORRY.



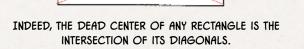
INDEED, THAT'S ONE-POINT'S BIG LIMITATION: YOU CAN'T REALLY SEE DEPTH ON THE OBJECTS THAT ARE IN THE MIDDLE OF YOUR PICTURE.

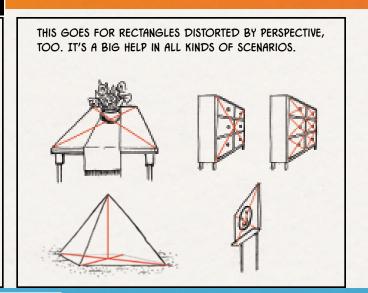




DIVIDING SPACES IN HALF WITH AN X

REGARDLESS OF WHERE WE DRAW AN OBJECT, THERE IS OFTEN A NEED TO LOCATE ITS CENTER. THANKFULLY, IT'S PRETTY EASY. JUST DRAW AN X.





DIVIDING RECTANGLES WITH AN X: A WINDOW

LET'S BREAK DOWN HOW THE X STRATEGY CAN BE USED TO DIVIDE UP A COUPLE OF WINDOWS.

LINES AND LINES THAT GO TO THE VANISHING POINT.

DRAW A WINDOW WITH VERTICAL

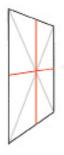
DRAW LINES THAT CONNECT THE OPPOSITE CORNERS TO MAKE AN X.

DRAW THEM LIGHTLY SINCE YOU'LL BE ERASING THEM LATER.

USE THE LINE AS A DIAGONAL

FOR A NEW RECTANGLE.

DIVIDE THE WINDOW INTO FOUR EQUAL SECTIONS USING A VERTICAL LINE, THE VANISHING POINT AND THE MIDDLE OF YOUR X.

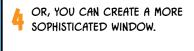


THIS ALONE

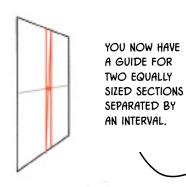
COULD BE A GOOD GUIDE

FOR A SIMPLE

WINDOW.



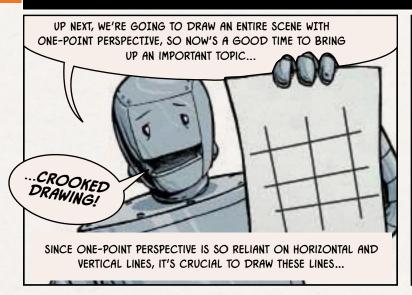
DRAW AN ANGLED LINE THAT PASSES THROUGH THE CENTER OF THE RECTANGLE.

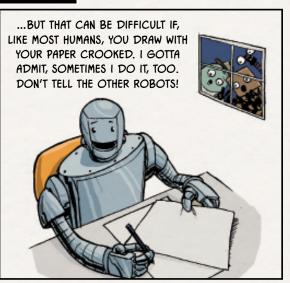


USE ADDITIONAL HORIZONTAL, VERTICAL AND VANISHING POINT LINES TO FINISH THE TRIM.

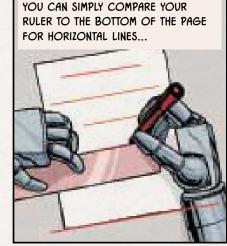


KEEPING HORIZONTAL AND VERTICAL LINES TRUE

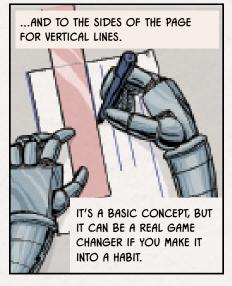


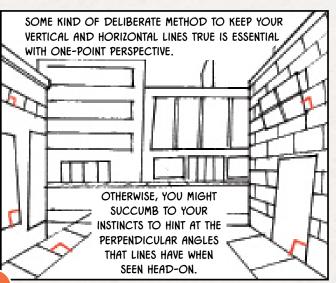


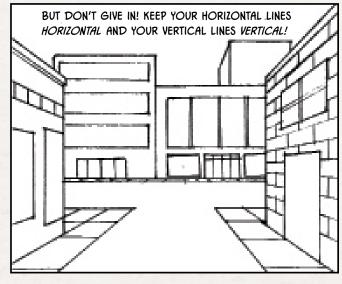




BUT IN LIEU OF MECHANICAL METHODS,



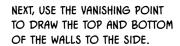




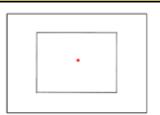
A ONE-POINT PERSPECTIVE ROOM

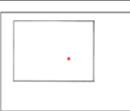
LET'S WRAP UP THE CHAPTER BY DRAWING A ROOM, KEEP YOUR EYE ON THOSE HORIZONTAL AND VERTICAL LINES IN THE LATER STEPS!

BEGIN WITH A VANISHING POINT IN THE MIDDLE OF YOUR PICTURE. THEN DRAW A WIDE RECTANGLE ANYWHERE YOU WANT AROUND THE VANISHING POINT. THIS RECTANGLE IS THE BACK WALL OF THE ROOM.



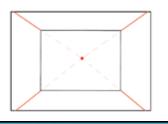
DO YOU SEE THE ROOMS? SOMETIMES IT'S NOT OBVIOUS AT FIRST.

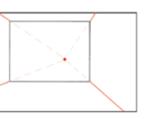




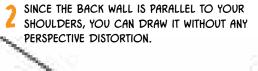


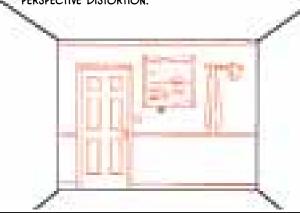
(I'LL BE USING THIS ONE.)

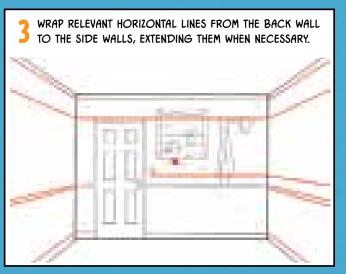


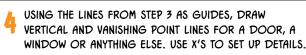


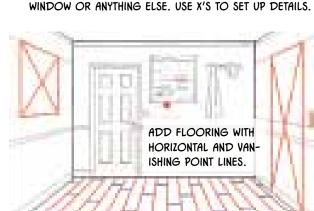


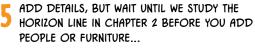


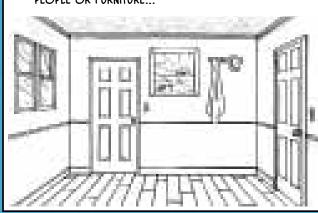












16

LET'S END THE CHAPTER WITH A FEW MISCELLANEOUS BUT IMPORTANT ONE-POINT PERSPECTIVE NOTES:

INSTEAD OF CONNECTING OBJECTS TO THE VANISHING POINT, DRAW LINES ON THE OPPOSITE SIDE TO CREATE A SENSE OF IMPENDING DOOM!









THE VIEWER'S EYE WILL BE DRAWN TO THE MIDDLE OF THE PICTURE OVER THE VANISHING POINT. BE AWARE OF WHAT

EVEN IF THEY ARE ABSTRACT LINES, THEY APPEAR TO REPRESENT THE MOVEMENT OF AIR... OR SOMETHING. ZOOM!

LINES RADIATING FROM THE VANISH-

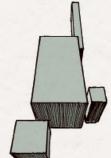
ING POINT CAN EMPHASIZE MOVEMENT

OR DRAMA.



AND I ALREADY MENTIONED THAT ONE-POINT PERSPECTIVE CAN'T BE USED TO DRAW STUFF THAT'S NOT SQUARE TO YOUR SHOULDERS, BUT BEWARE OF THESE OTHER NON-USES:

YOU CAN'T USE IT WHEN YOU WANT THE VIEWER TO FEEL LIKE THEY ARE LOOKING UP OR DOWN. YOU'LL NEED TWO VANISHING POINTS FOR THAT.

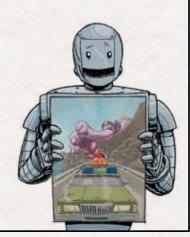


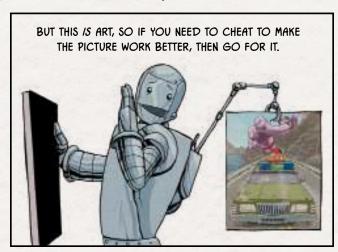
YOU CAN'T REALLY USE IT WITH ROUNDED OBJECTS LIKE THESE EITHER. I MEAN, YOU CAN, BUT THEY SUDDENLY DEVELOP HARD EDGES AND TAKE ON DIFFERENT MEANINGS.



(WE'LL COVER TECHNIQUES FOR THESE TYPES OF DRAWINGS LATER.)

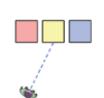
FINALLY, YOU KNOW HOW I'VE BEEN SAYING TO KEEP THE VANISHING POINT IN THE MIDDLE? THAT'S 100% CORRECT! OTHERWISE, YOU WOULDN'T TRULY BE SQUARE TO THE SUBJECT AND WOULD NEED TO USE TWO- OR THREE-POINT PERSPECTIVE.





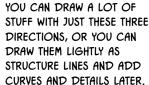
ONE-POINT **PERSPECTIVE** IS A DRAWING **TECHNIQUE** USED TO MAKE THE VIEWER FEEL LIKE THEY ARE SQUARE TO THE SUBJECT(S).

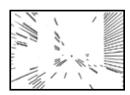


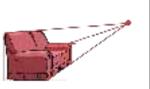


WITH ONE-POINT PERSPECTIVE, ALL VERTICAL LINES ARE DRAWN VERTICALLY, LINES THAT ARE PARALLEL TO YOUR SHOULDERS ARE DRAWN HORIZONTALLY AND LINES THAT ARE PARALLEL TO YOUR LINE OF SIGHT ARE DRAWN WITH LINES THAT GO TO A VANISHING POINT IN THE MIDDLE OF THE PICTURE.









BUT BECAUSE THE VANISHING POINT IS IN THE MIDDLE, YOU CAN'T SEE THE DEPTH OF **OBJECTS IN THE MIDDLE** OF YOUR PICTURE...







...UNLESS IT'S AN OBJECT YOU

CAN SEE THROUGH OR INTO,

LIKE A DAMAGED ROBOT OR

A ROOM.

YOU CAN INTERSECT THE DIAGONALS (MAKE AN X) TO FIND THE CENTER OF





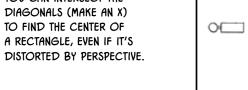




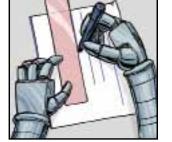
BUT FOR OTHERS, IT'S EASIER TO START WITH CURVED OR ANGLED LINES FOR THE SIDES FACING FORWARD.

FOR SOME OBJECTS, STARTING OFF WITH A BOX IS THE

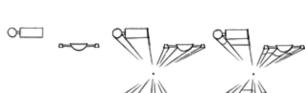
IDEAL FIRST STEP IN ONE-POINT PERSPECTIVE.

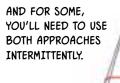


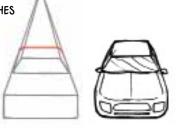




KEEPING HORIZONTAL AND VERTICAL LINES TRUE IS IMPORTANT. YOU CAN USE THE EDGES OF YOUR PAPER AS A REFERENCE.







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