

Orthographic Quick "How To"

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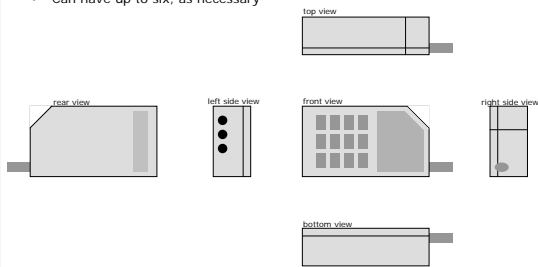
Overview

- What it is
- What it is for
- How to draw it

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What It Is

- A drafting of an object (ex: **a cell phone**)
- Generally, three views
- Can have up to six, as necessary



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What It Is For

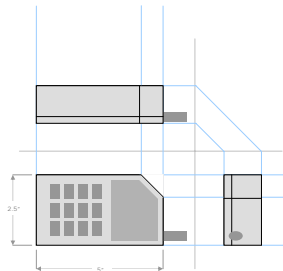
- Show the true size and shape of the features of an object
- Provide certain information on how the object will be made
- Usually accompanied by one or several perspective views of the object and a written document, or "spec".
- Help others (engineers, other designers) understand your object in detail

Why is it important to accurately communicate your ideas to engineers?

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How To Draw It

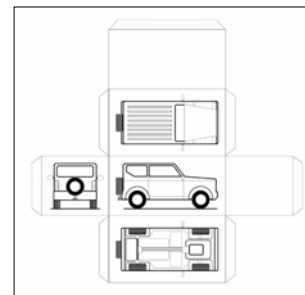
1. Draw a grid, very lightly. Use a T-Square and an adjustable triangle.
2. Measure and draw the outline of the object's front view
3. Extend the lines through the grid, lightly
4. Draw the outline of the object's top view
5. Draw lines through your y axis; then, draw lines at 45 degree angles to meet the x axis. Extend them down to meet your construction line.
6. Draw the outline of the object's right side view.
7. Add the details.
8. Add measurements.



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Let's Try It.

1. Accurately fill in the remaining two squares
2. Cut out the shape
3. Tape it together
4. Draw it in three dimensions



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