

The Saved Home Theater Room Plan

Room dimensions, screen and viewing-distance range,
speaker layout, seating checks and a staged component checklist.

1. Room Dimensions

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Measure the room before choosing screen size or speaker positions.

Room length (front wall to back wall): _____

Room width (side wall to side wall): _____

Ceiling height: _____

Primary seat distance from screen wall: _____

Screen wall usable width (clear of doors/windows): _____

Notes

Leave room for the projector or TV mount, in-wall speakers, and the screen's actual frame or bezel dimensions, not just the advertised diagonal.

2. Screen Size and Viewing Distance

Two published viewing-angle guidelines, used together:

THX (about 36 degrees): distance = diagonal / 0.835 -- a closer, more immersive seat for a dedicated movie room.

SMPTE EG-18 (about 30 degrees): distance = diagonal / 0.625 -- a farther, more comfortable seat for mixed TV and movie use.

Diagonal	THX near seat	SMPTE far seat
100"	83.5"	160"
120"	100.2"	192"
135"	112.7"	216"

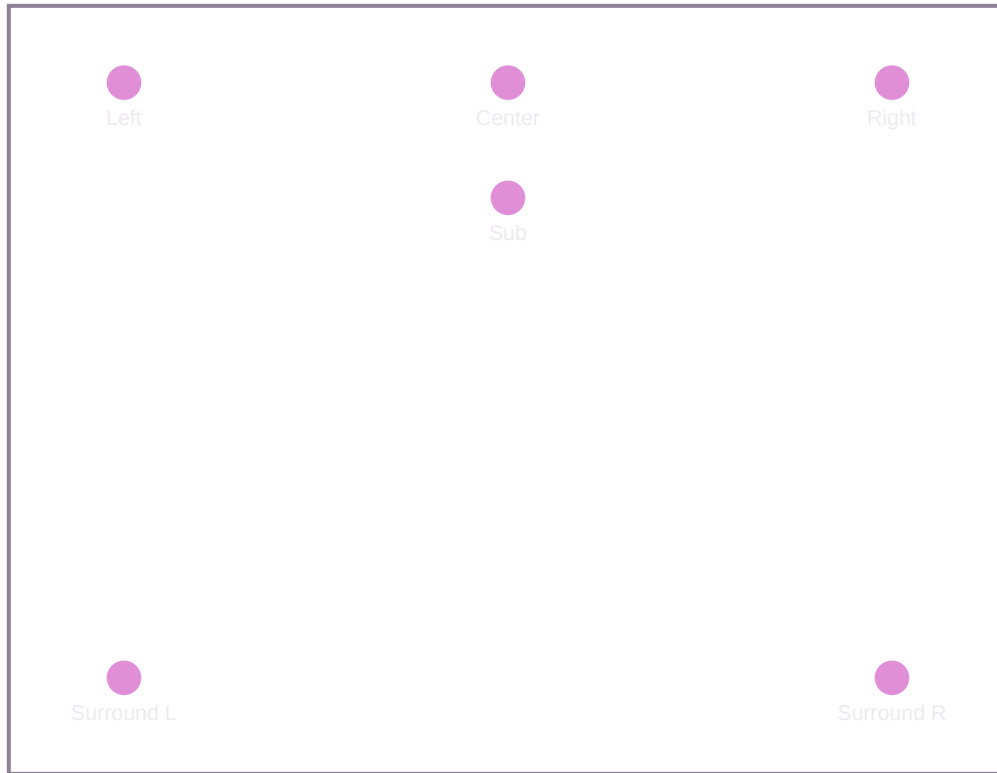
Your target screen diagonal:

Your planned seat distance:

3. Speaker Layout

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A 5.1 layout, sketch your own furniture in the blank room outline below:



Screen wall (top) -- seating area (bottom)

Placement checks

- Left/right speakers roughly equidistant from the main seat.
- Center speaker at or just below screen height, not blocked.
- Surrounds slightly behind and above ear height at the seat.
- Subwoofer away from room corners if bass sounds boomy.

4. Seating, Risers and Staged Components

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Seating and riser checks

- Sightline to the full screen is clear from every seat.
- A riser (about 6-8 inches) keeps the second row's sightline clear.
- Aisle space is kept clear of speaker wire and cable runs.
- Seats are outside the front wall's first reflection zone if possible.

Staged component checklist

- ☐ Display or projector + screen (confirmed size, from page 2)
- ☐ AV receiver or soundbar
- ☐ Front left/center/right speakers
- ☐ Surround speakers
- ☐ Subwoofer
- ☐ Seating (with riser if two rows)
- ☐ Acoustic treatment (panels or bass traps) if the room echoes
- ☐ Cable management / in-wall or floor channel

This plan is yours to keep and re-use as your room comes together.

For deeper guidance on any of these steps, see the full guides at home-theater-designers.com -- room design, screen size, speaker placement, seating and acoustic treatment.