

Centered

Baits are centered, and evenly distributed, across each target region. Baits may overlap regions outside of the target.

Why use this? This is the method tested most extensively.

Justified

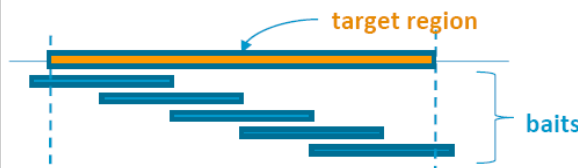
Baits are first tiled across the target. If baits extend past the target interval, all baits are shifted inward so that there will be no overlap with adjacent but un-targeted genomic regions.

Why use this? If it is desired to avoid having baits to any region adjacent to targets, for example, if sequencing cDNA.

Centered

Justified

(a) Target region is large (example of 2x tiling)



→ Centered baits extend past interval boundaries, but have even coverage across entire region
→ Justified baits do not extend past boundaries, but may have uneven coverage (e.g., see circle where regions have both 2x and 3x tiling)

(b) Target region is 2 times the bait length



→ Design is the same for Centered and Justified

(c) Target region is shorter than the bait length



→ Design is the same for Centered and Justified