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Nota di contenuto	Preliminaries on Weyl groups, affine buildings, and related notions -- Labelings and orientations, galleries, and alcove walks -- Dimensions of galleries and root operators -- Affine Deligne-Lusztig varieties and folded galleries -- Explicit constructions of positively folded galleries -- The varieties $X_x(1)$ in the shrunken dominant Weyl chamber -- The varieties $X_x(1)$ and $X_x(b)$ -- Conjugating to other Weyl chambers -- Diagram automorphisms -- Applications to affine Hecke algebras and affine reflection length.