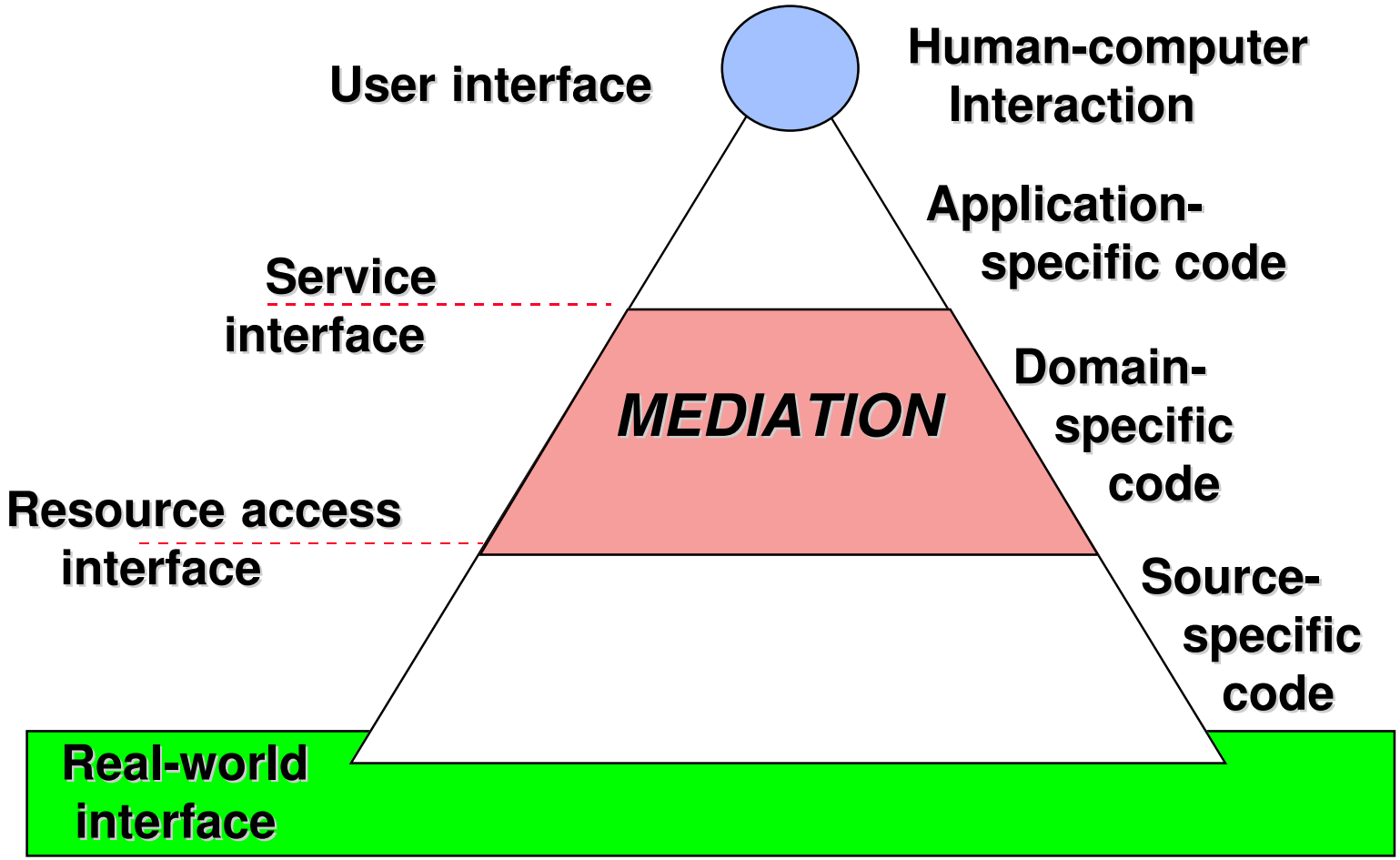Functional Layer