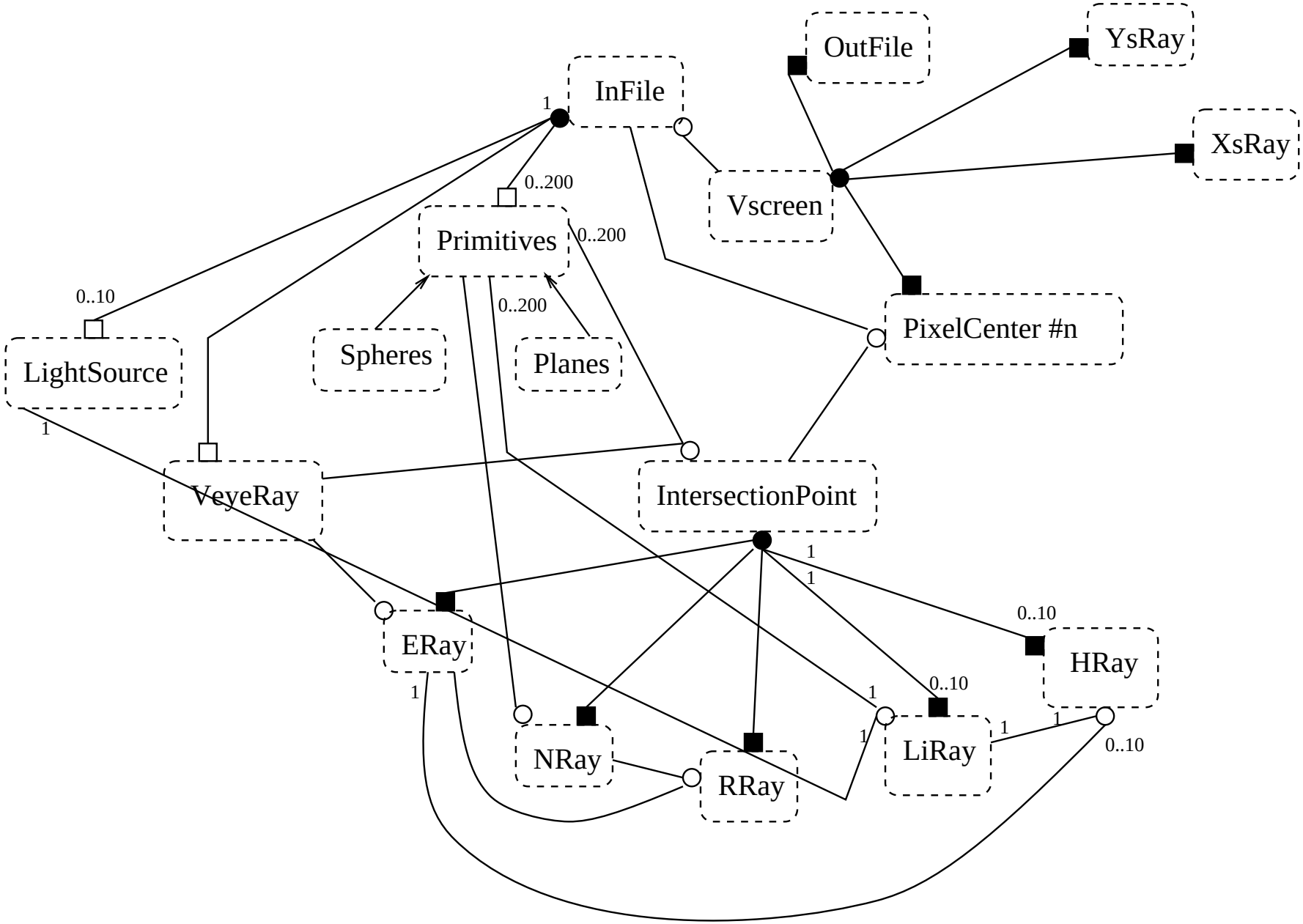Class Interactions