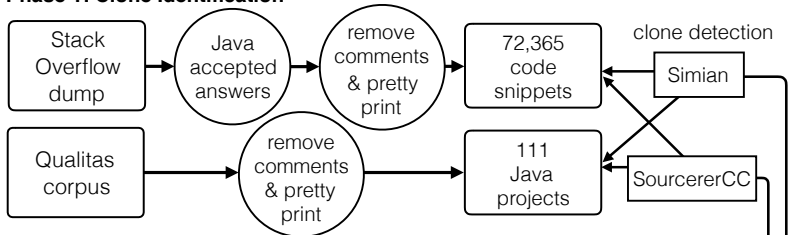
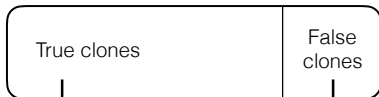


Phase 1: Clone Identification

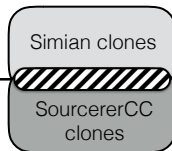


Phase 3: Clone Validation (RQ1)

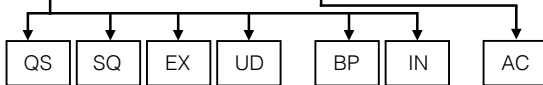
manually validated clone set



Phase 2: Clone Merging



Phase 4: Clone Classification (RQ2)



compare with latest version



Phase 5: Outdated Code (RQ3)

outdated clones

clone detection

Ninka



Phase 6: Licensing Analysis (RQ4)

auto. + manual license identification

license-violating clones

clone detection

GitHub projects