Retrospect Implementation Notes

* Object initialization
  + Native objects
    - Generate no-argument constructor
    - Technically works – VM doesn’t verify final fields are assigned
    - Not ideal because VM might be free to cache values, ignore assignments, etc.
    - Could also use FieldMapMirrors instead – may be faster than reflection-based NativeObjectMirrors
  + Mirage objects
    - Add extra mirror field to constructors, pass up super chain
      * Doesn’t handle reflection (i.e. Class#newInstance) – should construct inside constructors instead
    - How to distinguish calls to new (where mirror should be instantiated) from calls to super (where mirror should be passed along?)
      * Both are just INVOKESPECIAL
* Special cases
  + All classes must extend Object, which declares toString()
  + Therefore all toString() methods must return actual java.lang.String instances