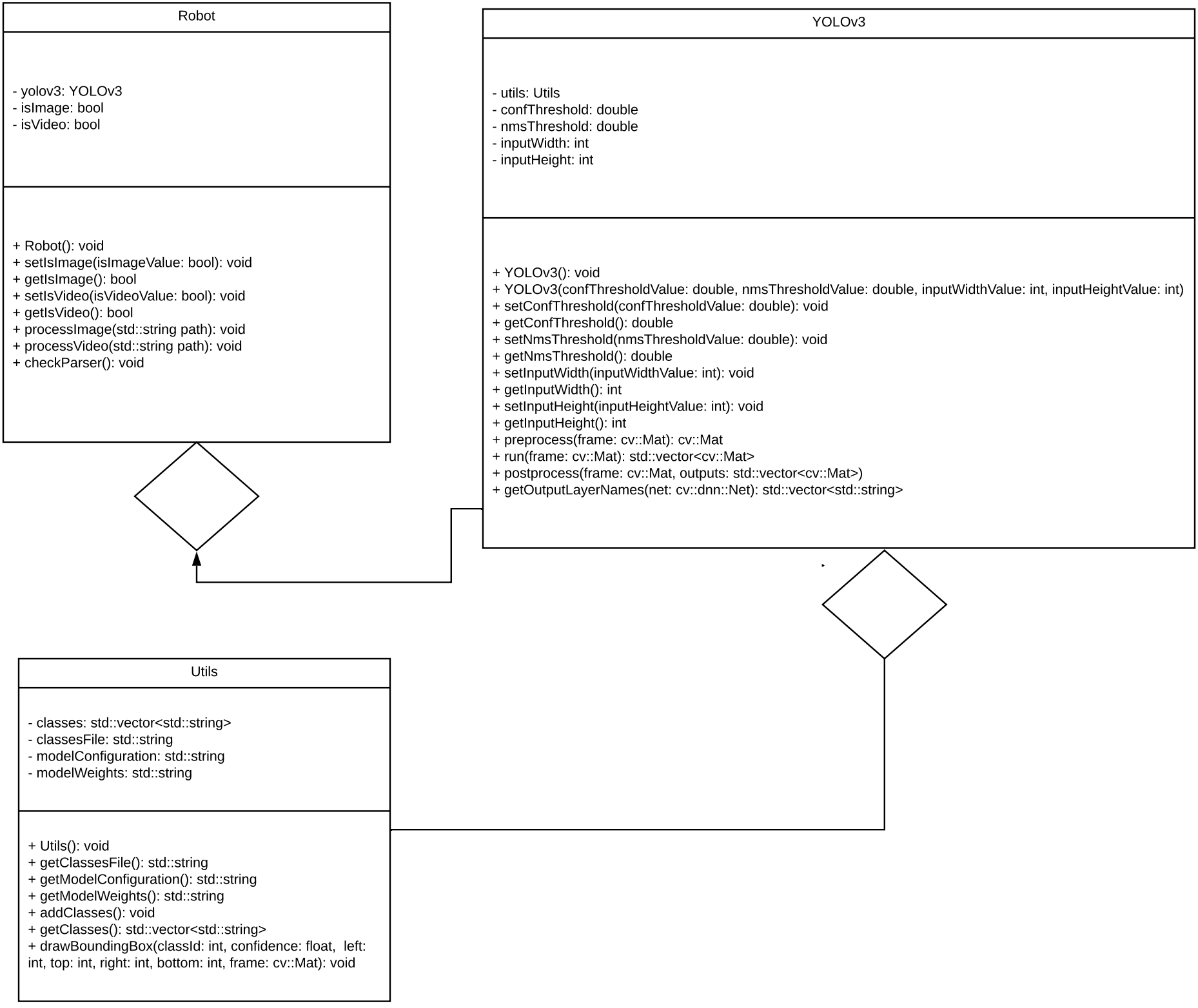
Robot
- yolov3: YOLOv3
- isImage: bool
- isVideo: bool
+ Robot(): void
+ setIsImage(isImageValue: bool): void
+ getIsImage(): bool
+ setIsVideo(isVideoValue: bool): void
+ getIsVideo(): bool
+ processImage(std::string path): void
+ processVideo(std::string path): void
+ checkParser(): void
YOLOv3
- utils: Utils
- confThreshold: double
- nmsThreshold: double
- inputWidth: int
- inputHeight: int
+ YOLOv3(): void
+ YOLOv3(confThresholdValue: double, nmsThresholdValue: double, inputWidthValue: int, inputHeightValue: int)
+ setConfThreshold(confThresholdValue: double): void
+ getConfThreshold(): double
+ setNmsThreshold(nmsThresholdValue: double): void
+ getNmsThreshold(): double
+ setInputWidth(inputWidthValue: int): void
+ getInputWidth(): int
+ setInputHeight(inputHeightValue: int): void
+ getInputHeight(): int
+ preprocess(frame: cv::Mat): cv::Mat
+ run(frame: cv::Mat): std::vector<cv::Mat>
+ postprocess(frame: cv::Mat, outputs: std::vector<cv::Mat>)
+ getOutputLayerNames(net: cv::dnn::Net): std::vector<std::string>
Utils
- classes: std::vector<std::string>
- classesFile: std::string
- modelConfiguration: std::string
- modelWeights: std::string
+ Utils(): void
+ getClassesFile(): std::string
+ getModelConfiguration(): std::string
+ getModelWeights(): std::string
+ addClasses(): void
+ getClasses(): std::vector<std::string>
+ drawBoundingBox(classId: int, confidence: float, left: int, top: int, right: int, bottom: int, frame: cv::Mat): void