

Markov::Model< char >
- nodes - starterNode - edges
+ Model() + RandomWalk() + AdjustEdge() + Import() + Import() + Export() + Export() + StarterNode() + Edges() + Nodes() + OptimizeEdgeOrder()

Markov::API::MarkovPasswords
- datasetFile - modelSavefile - outputFile
+ MarkovPasswords() + MarkovPasswords() + OpenDatasetFile() + Train() + Save() + Generate() + Buff() - TrainThread() - GenerateThread()

Markov::API::ModelMatrix
edgeMatrix # valueMatrix # matrixSize # matrixIndex # totalEdgeWeights # ready
+ ModelMatrix() + ConstructMatrix() + DumpJSON() + FastRandomWalk() + Import() + Train() # FastRandomWalk() # FastRandomWalkPartition() # FastRandomWalkThread() # DeallocateMatrix()

Markov::API::CUDA:: CUDADeviceController
+ ListCudaDevices() # CudaCheckNotifyErr() # CudaMalloc2DToFlat() # CudaMemcpy2DToFlat() # CudaMigrate2DFlat()

Markov::API::CUDA:: CUDAModelMatrix
- device_edgeMatrix - device_valueMatrix - device_matrixIndex - device_totalEdgeWeights - device_outputBuffer - outputBuffer - flatEdgeMatrix - flatValueMatrix - cudaBlocks - cudaThreads - iterationsPerKernelThread - totalOutputPerSync - totalOutputPerKernel - numberOfPartitions - cudaGridSize - cudaMemPerGrid - cudaPerKernelAllocationSize - alternatingKernels - device_seeds - cudastreams
+ MigrateMatrix() + FlattenMatrix() + FastRandomWalk() # AllocVRAMOutputBuffer() # LaunchAsyncKernel() # prepKernelMemoryChannel() # GatherAsyncKernelOutput()