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

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

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

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

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| 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() |