```
Markov::Model< char >
    nodes

    starterNode

    edges

   + Model()
   + RandomWalk()
   + AdjustEdge()
   + Import()
   + Import()
   + Export()
   + Export()
   + StarterNode()
   + Edges()
   + Nodes()
   + OptimizeEdgeOrder()
               Δ
Markov::API::MarkovPasswords

    datasetFile

    modelSavefile

- outputFile
+ MarkovPasswords()
+ MarkovPasswords()
+ OpenDatasetFile()
+ Train()
+ Save()
+ Generate()
+ Buff()
 TrainThread()
- GenerateThread()
               Δ
  Markov::API::ModelMatrix
 # edgeMatrix
 # valueMatrix
 # matrixSize
 # matrixIndex
 # totalEdgeWeights
 # ready
 + ModelMatrix()
 + ConstructMatrix()
 + DumpJSON()
 + FastRandomWalk()
 + Import()
+ Train()
   Train()
 # FastRandomWalk()
 # FastRandomWalkPartition()
 # FastRandomWalkThread()
 # DeallocateMatrix()
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()