

| WAV_Header |
|--|
| +chunkId[4] : Char |
| +chunkSize : Long |
| +format[4] : Char |
| +subchunk1Id[4] : Char |
| +subchunk1Size : Long |
| +audioFormat : Short |
| +numChannels : Short |
| +sampleRate : Long |
| +byteRate : Long |
| +blockAlign : Short |
| +bitsPerSample : Short |
| +subchunk2Id[4] : Char |
| +subchunk2Size : Long |
| +subchunk2ListType[4] : Char |
| +subchunk2Text[4] : Char |
| +GetHeader(String) : [WavHeader] |
| +PrintHeader(FString, FString) : Boolean |

| WAV_Reader |
|---|
| +sampleDataL[0..*] : Vector<Complex<Double>> |
| +sampleDataR[0..*] : Vector<Complex<Double>> |
| +DSIZE : Int |
| +GetAmplitudeValues(Vector<Complex<Double>>, Integer) : Vector<Complex<Double>> |
| +PushBackZeros(Vector<Complex<Double>>, Integer) : Vector<Complex<Double>> |
| +FFT(Vector<Complex<Double>>) : Vector<Complex<Double>> |
| +AmplitudeBlockProc(Vector<Double>, Vector<Double>) : Vector<Complex<Double>> |
| +ReadFromFile(String, Vector<Vector<Double>>, Vector<Vector<Double>>) : Boolean |

| BPM_Detector |
|--|
| +max_element(Vector<Double>, Integer, Integer) : Double |
| +min_element(Vector<Double>, Integer, Integer) : Double |
| +FindMinMaxPeaks(Vector<Vector<Double>>, Vector<Double>, Vector<Double>) : Boolean |
| +FindBassPeaks(Vector<Double>, Double, Double, Double) : Double |
| +Detect_BPM(Vector<Vector<Double>>, Vector<Vector<Double>>) : Double |

| Actor |
|--|
| -canBeDamaged : Boolean |
| -AutoDestroyWhenFinished : Boolean |
| +GetAllChildActors(Actor, Boolean) : [Actor] |
| +GetParentActor(Actor) : [Actor] |
| +IsChildActor(Actor) : Boolean |
| +GetComponentsByClass(Actor, ComponentClass) : *Components |
| +GetAllActorsOfClass(ActorsClass) : [Actor] |















