

MixBuss

creates audio busses and groups for a multichannel audio framework.

three kinds of channels in a MixBuss

1. input channel - connects a mic/preamp to an audio buss. can be any number of adjacent input channels. has an amplitude control.
2. mix group - an audio buss of any number of channels. is the destination for input channels. intended as the container for any number of transformation processes in any custom and specific order. the last transformation before the channel send could be spacialization to allow for independant channel panning.
3. main mix - an audio buss of any number of channels that is the destination for all mix group channels.

Audio input (mic/pre amp) are optionally used as the input for 'channels' that are of any audio buss width.

MixBuss.new(server, recipe)

server - a server

recipe - and array.

array may define any of the following key/value pairs

```
[
  \numHardwareInput, 8,
  \numHardwareOutput, 2,
  \numInput, 2,
  \inputSize, 1,
  \groupSize, 2,
  \mainSize, 4,
  \numGroup, 32,
  \outBus, 0,
  \krBuss, [],
  \krBase, 0,
  \groupStyle, \default,
  \groupStyle_0, [[\mixBuss, [\mixInput, \mixGroup, \mixMain]]],
  \groupStyle_1, [
    [\mixInput, [\mixChanInput, \mixChanXForm, \mixChanOutput]],
    [\mixGroup, [\mixGroupXForm, \mixGroupOutput]],
    [\mixMain, [\mixMainXForm, \mixMainOutput]]
  ],
  \groupStyle_2, [
    [\mixChanInput, [\ctrlIn, \audiIn, \analysis, \source, \sample]],
    [\mixChanXForm, [\chanXForm1, \chanXForm2, \chanXForm3,
\chanXForm4, \chanXForm5]],
    [\mixChanOutput, [\chanOutput, \chanRecord]]],
```

```

        [\mixGroupXForm, [\groupXForm1, \groupXForm2,
\groupXForm3, \groupXForm4, \groupXForm5]],
        [\mixGroupOutput, [\groupOutput, \groupRecord]],
        [\mixMainXForm, [\mainXForm1, \mainXForm2, \mainXForm3,
\mainXForm4, \mainXForm5 ]],
        [\mixMainOutput, [\mainOutput, \mainRecord]]
    ]
]

```

```

.soundIn(chan)
.krBuss(chan)
.mic(chan)
.input(chan)
.group(chan)
.main

```

chan - a number, mixer channel
returns the server bus number of the first channel in the mixer channel.

```

.addKr(...args)
args - comma seperated key value pairs

```

creates a control buss in the mixer
\krBuss, [],

```

.removeKr(...args)
args - comma seperated key value pairs

```

remove args from the config

```

.buildGroups(groupStyle)
groupStyle - a symbol [\simple, \default, \fine]
cooresponding to \groupStyle_0, 1, 2

```

```

.testRequirements
compare the requirements of the current config with the capabilities of the existing server.
Warn as needed.

```

```

.buildLookups
internal use

```

`.buildEventDefs`
builds the eventdefs to manage the mixer synths

`.buildSynths`
create and `.add` the mixer synths to the server

`.addDef(name, input, output, recipe, envir)`
name - a symbol, name of the MixDef
input - a number
output - a number
recipe - an array
envir