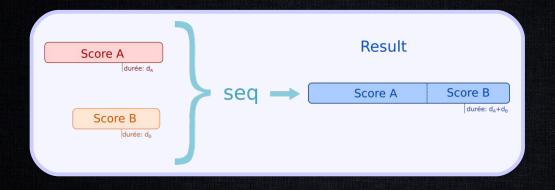
GUIDO EXPRESSIONS

GuidoAR Operators

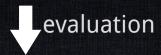


GuidoAR Operators

- seq *(sequence)*
- par *(parallel)*
- head
- tail
- duration
- applyRythm

- top
- bottom
- transpose
- applyPitch

expr(operator arg arg)



Clean GMN String

expr(operator arg arg)



```
/ITL/scene/score set gmn expr(operator arg arg);
/ITL/scene/score set pianoroll expr(operator arg arg);
```

```
expr( operator arg arg )
```

seq

top

par

bottom

head

transpose

tail

- applyPitch
- duration
- applyRythm

```
expr( operator arg arg )
```

GMN String

```
/ITL/scene/score set gmn expr(seq "[a]" "[b]");

/ITL/scene/score set gmn "[ a b ]";
```

```
expr( operator arg arg )
```

- GMN String
- filepath

```
/ITL/scene/score set gmn expr(seq "[a]" score.gmn);
```

```
expr( operator arg arg )
```

- GMN String
- filepath
- existing object

```
/ITL/scene/sample set gmn "[ {c,d,e} ]";
/ITL/scene/score set gmn expr(seq "[a]" sample);
```

```
expr( operator arg arg )
```

- GMN String
- filepath
- existing object
- Guido expression

```
/ITL/scene/score set gmn expr(seq "[a]" (seq "[b]" "[c]") ) ;
```

```
expr( operator arg arg )
```

- GMN String
- filepath
- existing object
- Guido expression

New Data Event

```
/ITL/scene/score watch newData;
```

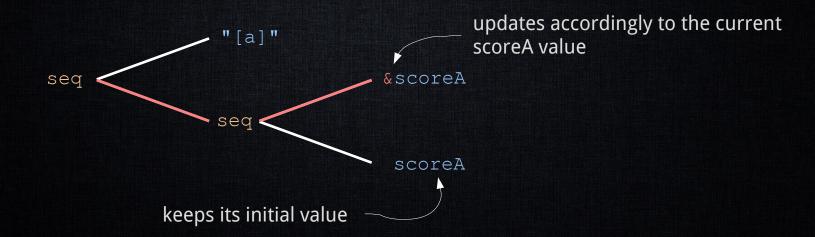
- triggered when an object value change (set, write, update)
- postponed to the next event loop to handle recursion

Expression Re-Evaluation

/ITL/scene/score set qmn expr(seq &scorAs&scoreBeB); /ITL/scene/scoreA watch newData (/ITL/scene/score expressedr(seg scoreA scoreB) /ITL/scene/scoreB watch newData (/ITL/scene/score expremeexadr (seq scoreA scoreB)

Expressions Evaluation

- reevaluation optimisation
- value from the initial state can be stored



Expression composition

```
/ITL/scene/score set gmn expr(seq &sample &sample);
/ITL/scene/result set gmn expr(par ~score ~score);
```

