



# STRETCHABLE BEHAVIORS

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Toward behavioral abstraction



## Making “Stretchable” Behaviors

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- Nyquist has default stretch behaviors for all primitives,
- But this may not be what you want
- Often, you want certain things to stretch, and others (e.g. rise times) to remain fixed.

## Stretch Example 1

- You want the *number* of events to increase with stretch:

```
define function n-things()
begin
  with dur = get-duration(1),
    n = round(dur / *thing-duration*)
  return seqrep(i, n, thing() ~~ 1)
end
```

## Stretch Example 2

- You want an envelope to have a *fixed* rise time. MY-ENVELOPE has a fixed rise and fall time, but stretches with the stretch factor:

```
define function my-envelope()
begin
  with dur = get-duration(1)
  return pwl(*rise-time*, 1,
            dur - *fall-time*, 1, dur) ~~ 1
end
```