

manual

Procedural Sequencer

NextTuesday shapes melodies based on mathematical procedures better known as algorithms. We dove into music and came up with a number of ideas of how notes could be held in sequence. We now have 14 of them and a test pattern. The knobs and inputs give you hands-on control over various parameters, the dynamics of probability and timing. You design the sound while the melody continues.

Controls

1. TEMPO knob

Here you set the speed of the beats from which the tempo of the melody is derived. This tempo knob has two modes. If no external clock is connected then turning the knob controls the tempo from 20 up to 240 beats per minute. If an external clock is connected, then turning the knob controls the clock subdivision level, ranging from 1:6 on the left to 1:1 on the

2. ROOT input & knob

Transpose your melody. To the left scales down 2 octaves, to the right scales up 2 octaves.

3 & 4. X and Y inputs & knobs

X and Y control the 2 main parameters of your selected algorithm. What these parameters do varies wildly per algorithm. Please read the Algorithms section to find out more

5. ! input & knob

! Represents the probability of a note in the available melody actually being played. All the way to the left the probability is close to zero and all the way to the right the probability is almost a certaintu

6. ALGO button and LEDs

Access four different algorithms at the touch of a button. Pressing the ALGO button cycles you between four slots. We have selected four for you, but you can assign any other algorithm. Please read the Algorithms section to see how. Our selection:









Stomper

TriTrance Saiko Lead Wobble

7. SCALE button and LEDs

Pressing the scale button cycles you between four different musical scale slots. We have selected four for you, but you can assign other scales. Please read the Scales section to assign other scales. Our selection:











Dorian



Pressing the BEATS button cucles you between four different

beats-per-loop options. NextTuesday can give you four, eight,



8. BEATS button and LEDs

sixteen or thirty-two beats per loop.





16 beats 32 beats 8 measures

9. TICKS button and LEDs

Pressing the TICKS button cycles you between four different ticks-per-beat options. NextTuesday can give you two, three, four or five ticks per beat.



4 beats

1 measure







5 ticks

The tempo of NextTuesday will synchronize to any clock signal you input here. When you do this, the TEMPO knob becomes a subdivider. You can turn the TEMPO knob all the way to the right for undivided clocks.

11. RESET input

You can patch a gate signal into this input to rewind the melody to the beginning of its loop. Please refer to Clock Settings to change reset behaviour.

12 to 19. OUTPUTS

The CLOCK OUT, TICK, BEAT and LOOP outputs send triggers. The NOTE and MOD outputs are analog CV. They provide you with note and modulation curves to control your oscillators and other parameters in your patch

The GATE and ACCENT outputs send pulses to your connected envelopes for every note that NextTuesday plays.

ROOT, X, Y and ! have CV inputs. You can use these to alter their values by external means. The incoming CV is always added to the position of the knob.



CARPE TUESDAY

Installing the module

Plug & Play

TANRS NextTuesday CLOCK OUT TICKS C LOOP ACCENT GATE 0 0

Things to try

Rhythmic LFO

You can use the CLOCK IN to sunc NextTuesday to an external sync and use the MOD and NOTE outputs as a rhythmic LFO to control interesting accents in your patch.

You can use the BEAT, TICK and LOOP outputs together with the ACCENT and GATE as a rudimentary drum pattern generator.

Use a midi-to-cv module with a summer (like the Ardabil) and the NextTuesday NOTE output to create an arpeggiator. Connect the gate from the midi-to-cv to the RESET input for full effect.

Songs

Sequence the modulation inputs to create longer song structures

Always Tuesday

With two (Next)Tuesdays you can use a slower Tuesday to provide a root note, and a faster Tuesday to play melodies on

Slower than that

Make long soundscapes by turning the tempo to the left.

When using CLOCK IN, NextTuesday's CLOCK OUT/TICK/BEAT & LOOP outputs act as clock dividers.

More MOD

The MOD output follows the same scales as the NOTE output so connecting a second oscillator to the MOD output might be interesting.

Factory Reset

Hold down the BEATS button while powering up your system. All the options for scales, algorithms, ticks and beats will reset to our

Let us know

Please check out our website for more information, demo videos and various links. You can also get in touch with us here for any questions or feedback and share your beepings. www.thisisnotrocketscience.nl

Credits

Design and programming by Stijn Haring-Kuipers Operations by Priscilla Haring-Kuipers Compute by Raspberry Pi (UK) PCB by JLC-PCB (CHINA) SMD assembly by Quant (NL) Frontpanel by Repos (NL) Light pipes by Lux Violet (NL) Printing by De Regenboog Groep (NL) Package silkscreening at AGALab (NL) Sanity checks and emotional support by our friends on the TiNRS and Plinky discord channels - thank you!

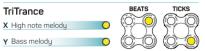
All TiNRS products are proudly assembled at our antistatic kitchen table in Amsterdam, The Netherlands.

Algorithms

Your NextTuesday comes with four algorithms selected. You can select another algorithm into any of the four slots. Start by pressing the ALGO button until you have selected the LED for the slot you want. Now hold down the ALGO button until your selected LED starts blinking. Then release the ALGO button and use the BEATS and TICKS buttons to select a new algorithm by matching it to the LED patterns below. While the ALGO LED is still blinking, you can also select an output mode. When you are happy with your new selection, hold down the ALGO button again until your LED stops blinking. You have now successfully filled a slot.



The test pattern provides a range of melodies suitable for calibration of your oscillators. The Y knob also cycles through all the possible velocity levels.



This algorithm builds patterns based on the tendency of classic trance and deep-house to create melodies from the juxtaposition of three tick riffs against a four tick beat. Rolling bass is interleaved with slow moving high notes.



This algorithm derives its name from the floor shaking bass anthems of the acid house era.



Probablistic matrix walker



The wobble algorithm uses a combination of internal LFOs to walk the notes on the scale. The LFOs are subtly out of sync to create more interesting patterns.



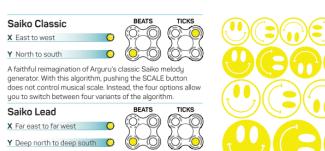
Retro gaming galore. This algorithm creates fast switching chord progression arpeggios.



Even more retro gaming. More chaotic than Chip Arp 1



Had a plan - sampled the wobble periodically - executed lazily.



BEATS

BEATS

BEATS

REATS

TICKS

TICKS

TICKS

Modern version of Saiko Classic. This time, the scale selection

What goes up must come down... and go up again and down

again. This algorithm creates an upwards melody that drops

Offbeat, onbeat, full on and gallops. No worries.

does control musical scale

X Length of the walk

and goes back up again

X Horizontal seed injection

Y Vertical seed injection

X She loves me not

Y She loves me

The Beet

Slides OFF

Longer notes

Slides ON

Longer notes

Slides OFF

Veru Mixed

Slides ON

Veru Mixed

This algorithm is straight up random.

Who doesn't love some slidy basslines.

Too Easy

X Permutate

Y Variate

Random

Lover

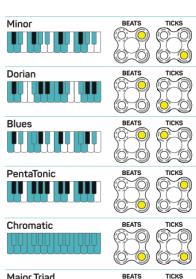
Scale Walker

Y Start of the walk

Scales

Your NextTuesday comes with four musical scales selected. You can select another scale into any of the four slots. Start by pressing the SCALE button until you have selected the LED for the slot you want. Now hold down the SCALE button until your selected LED starts blinking. Then release the SCALE button and use the BEATS and TICKS buttons to select a new scale by matching it to the LED patterns below. When you are happy with your new selection, hold down the SCALE button again until your LED stops blinking. You have now successfully filled a slot.



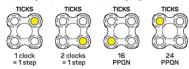


Clock Settings

To change the clock settings, press down the TICKS button and hold down until all four BEATS LEDs light up. You are now in Clock Settings mode. When you like your new settings, press the BEATS button. Three of the four BEATS LEDs will fade out and your NextTuesday will resume normal operation with the new settings.

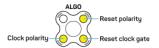
Clock Stepping Speed (PPQN)

While in Clock Settings mode you can select one of four options for your clock stepping speed. Press the TICKS button to light up the LED corresponding to your selection

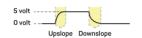


Clock and Reset Behaviour

While in Clock Settings mode you can also select one of eight options for your clock and reset behaviour. Three of the ALGO LEDs correspond with three aspects:

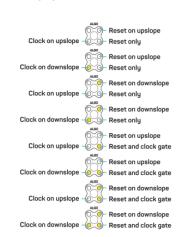


Clock and Reset Polarity both deal with the choice between responding to the upslope or the downslope of a signal. If you want NextTuesday to respond to the start of a pulse, use the upslope. If you want NextTuesday to respond to the end of a pulse, use the downslope. When clocking NextTuesday with gates, please keep in mind that gates have length and time passes between the upslope and downslope.



The RESET input can also function as a gate for the clock, meaning NextTuesday will stop playing as long as a gate signal is given.

Press the ALGO button to light up the LEDs corresponding to your selection:



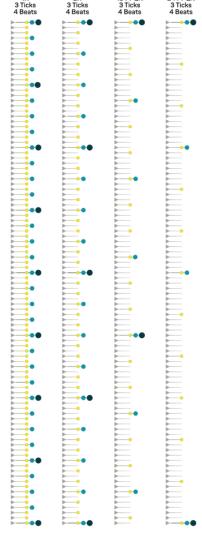
More on clocking

This diagram illustrates the interaction between the stepping speeds, the incoming clockpulses and the resulting outputs. The TICK, BEAT and LOOP dots correspond to the blinking LEDs next to the outputs. The CLOCK dots corresponds to the clock pulses you send into the NextTuesday CLOCK IN.



16 PPQN

24 PPQN

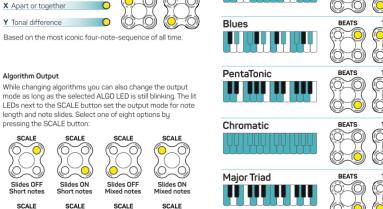


1:1 and 1:2 stepping speed

The length of the ticks is proportional to the time between the clock pulses. Beats and loops are derived by subdividing these ticks.

24ppqn and 16ppqn stepping speed

The length of the beats is proportional to the time of the clock pulses. Ticks and loops are derived by dividing and interpolating the beats.



Minor Triad