

TRY SOME STUFF OUT

MEET NEW PEOPLE



W02 - LIVE CODING 1

**EVERYONE IS
WELCOME!**

**EVERYBODY
LOVE
EVERYBODY!**

Jackie Moon

**THIS WILL BE
WEIRD AT TIMES!
EMBRACE IT!
(SEE PREVIOUS SLIDE)**

LIVE CODING

LIVE CODING – [HTTPS://EN.WIKIPEDIA.ORG/WIKI/LIVE CODING](https://en.wikipedia.org/wiki/Live_Coding)

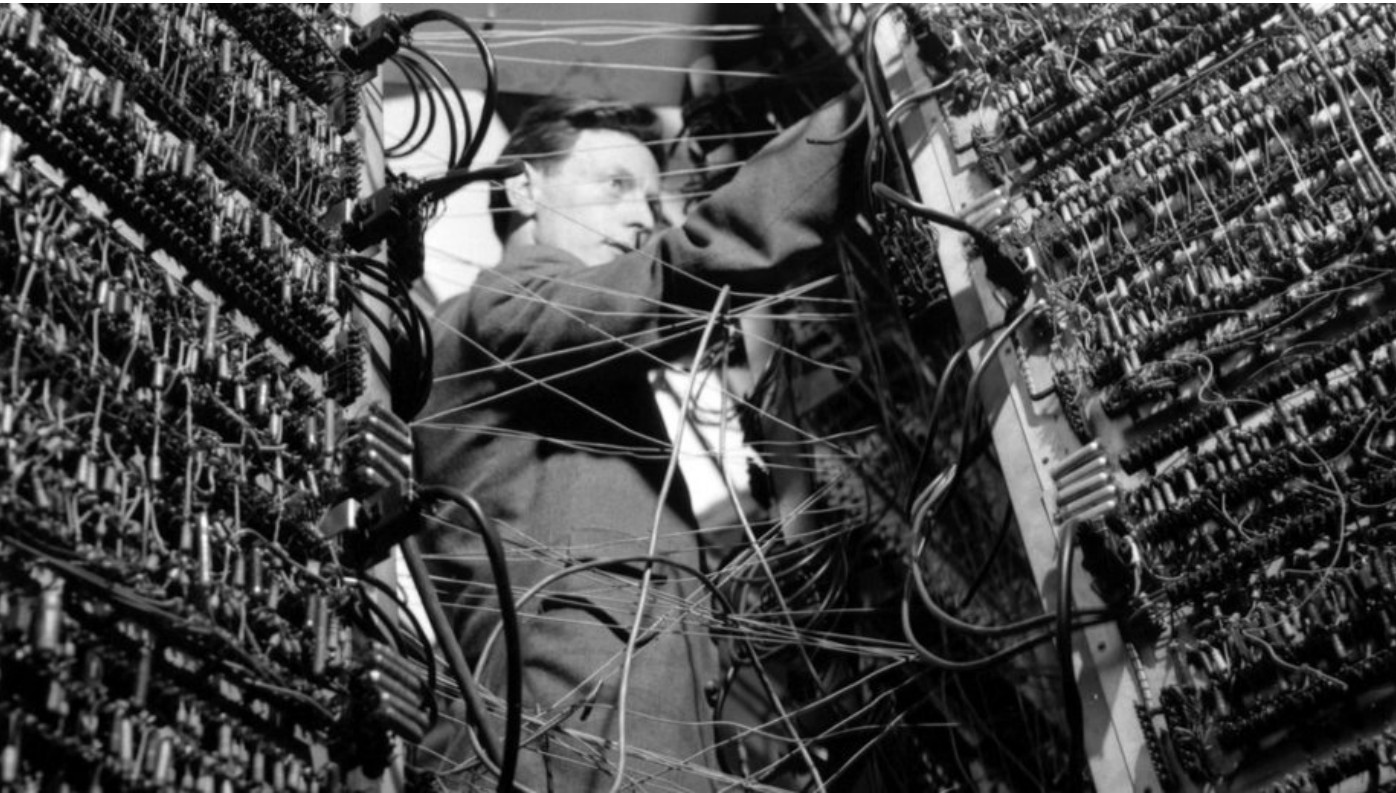
LIVE CODING[1] (SOMETIMES REFERRED TO AS 'ON-THE-FLY PROGRAMMING',[2] 'JUST IN TIME PROGRAMMING' AND 'CONVERSATIONAL PROGRAMMING') MAKES PROGRAMMING AN INTEGRAL PART OF THE RUNNING PROGRAM.[3]

IT IS MOST PROMINENT AS A PERFORMING ARTS FORM AND A CREATIVITY TECHNIQUE CENTRED UPON THE WRITING OF SOURCE CODE AND THE USE OF INTERACTIVE PROGRAMMING IN AN IMPROVISED WAY. LIVE CODING IS OFTEN USED TO CREATE SOUND AND IMAGE BASED DIGITAL MEDIA, AS WELL AS LIGHT SYSTEMS, IMPROVISED DANCE AND POETRY,[4][5] THOUGH IS PARTICULARLY PREVALENT IN COMPUTER MUSIC USUALLY AS IMPROVISATION, ALTHOUGH IT COULD BE COMBINED WITH ALGORITHMIC COMPOSITION.[6] TYPICALLY, THE PROCESS OF WRITING SOURCE CODE IS MADE VISIBLE BY PROJECTING THE COMPUTER SCREEN IN THE AUDIENCE SPACE, WITH WAYS OF VISUALISING THE CODE AN AREA OF ACTIVE RESEARCH.[7] LIVE CODING TECHNIQUES ARE ALSO EMPLOYED OUTSIDE OF PERFORMANCE, SUCH AS IN PRODUCING SOUND FOR FILM[8] OR AUDIOVISUAL WORK FOR INTERACTIVE ART INSTALLATIONS.[9] ALSO, THE INTERCONNECTION BETWEEN COMPUTERS MAKES POSSIBLE TO REALIZE THIS PRACTICE NETWORKED IN GROUP.

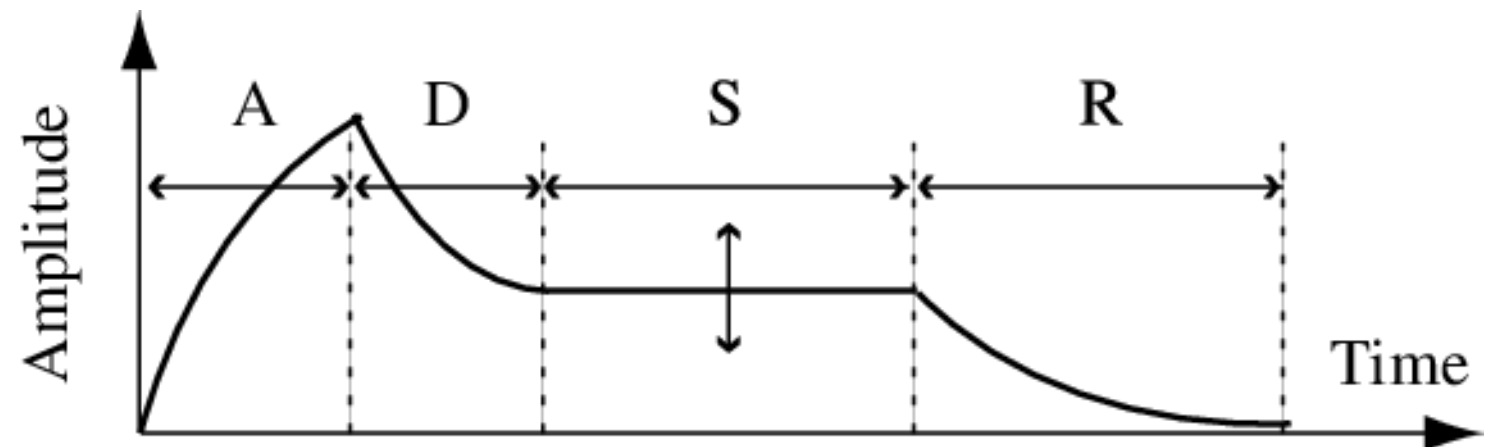
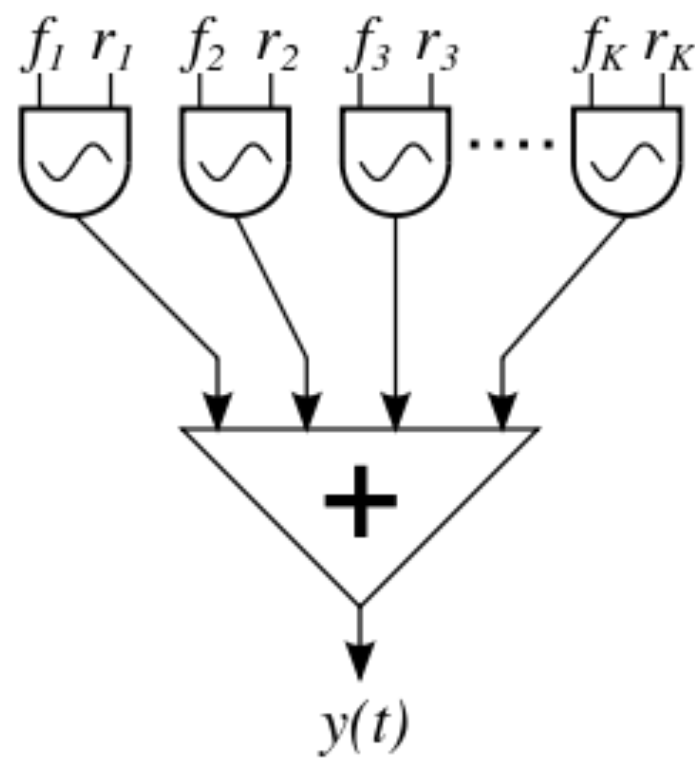
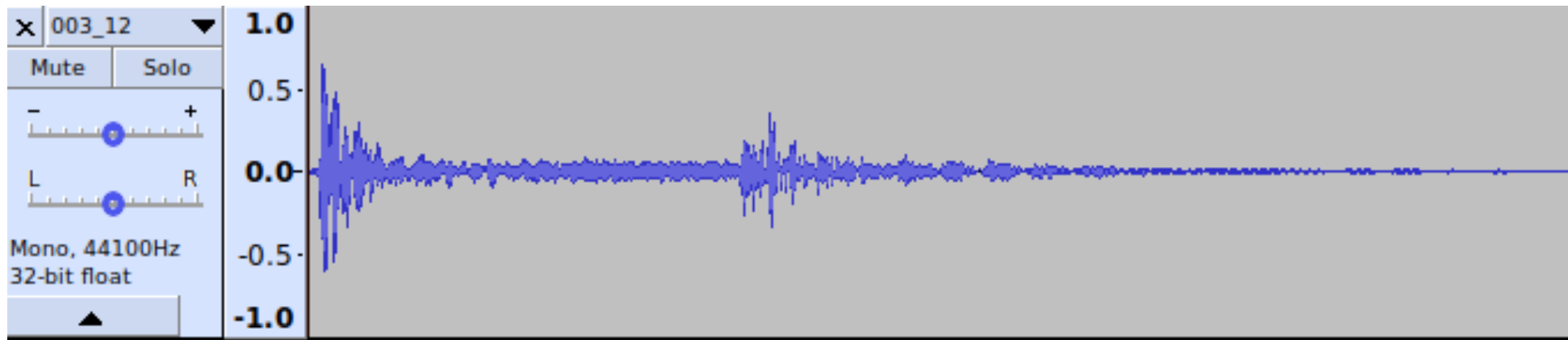
THE FIGURE OF LIVE CODER IS WHO PERFORMS THE ACT OF LIVE CODING, USUALLY "ARTISTS WHO WANT TO LEARN TO CODE, AND CODERS WHO WANT TO EXPRESS THEMSELVES"[10] OR IN TERMS OF WANG & COOK THE "PROGRAMMER/PERFORMER/COMPOSER".[11]

LIVE CODING IS ALSO AN INCREASINGLY POPULAR TECHNIQUE IN PROGRAMMING-RELATED LECTURES AND CONFERENCE PRESENTATIONS, AND HAS BEEN DESCRIBED AS A "BEST PRACTICE" FOR COMPUTER SCIENCE LECTURES BY MARK GUZDIAL.[12]

What is Computer Music?



Samples and Synthesized Sound



Oramics Machine + Sequencing

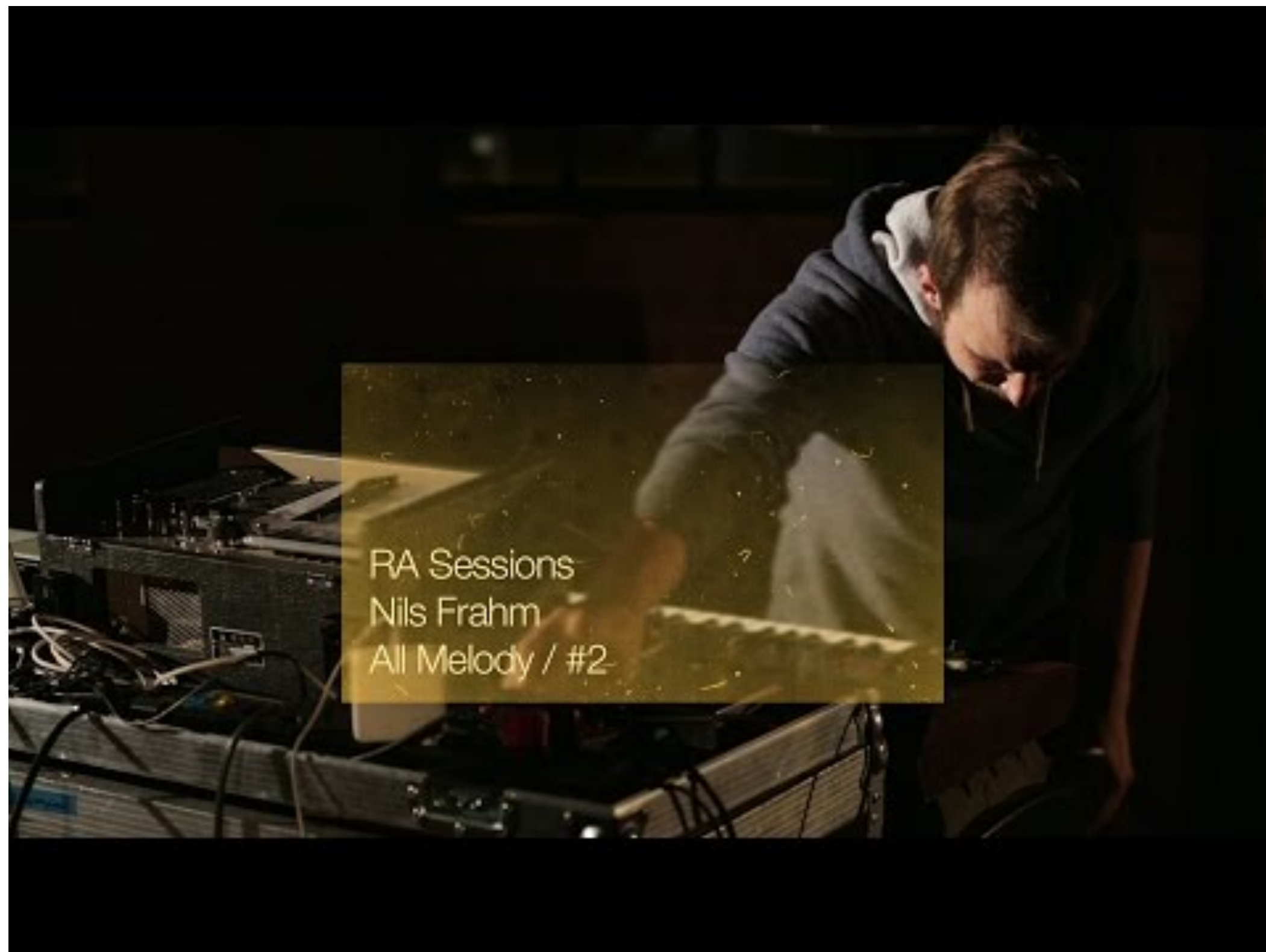


Yosi Horikawa - Bump

<https://www.youtube.com/watch?v=DpYitYYWfNw&list=PL-iw--mMCQ3JrQI5HIOGJD3XLndLMTo7S&index=2>

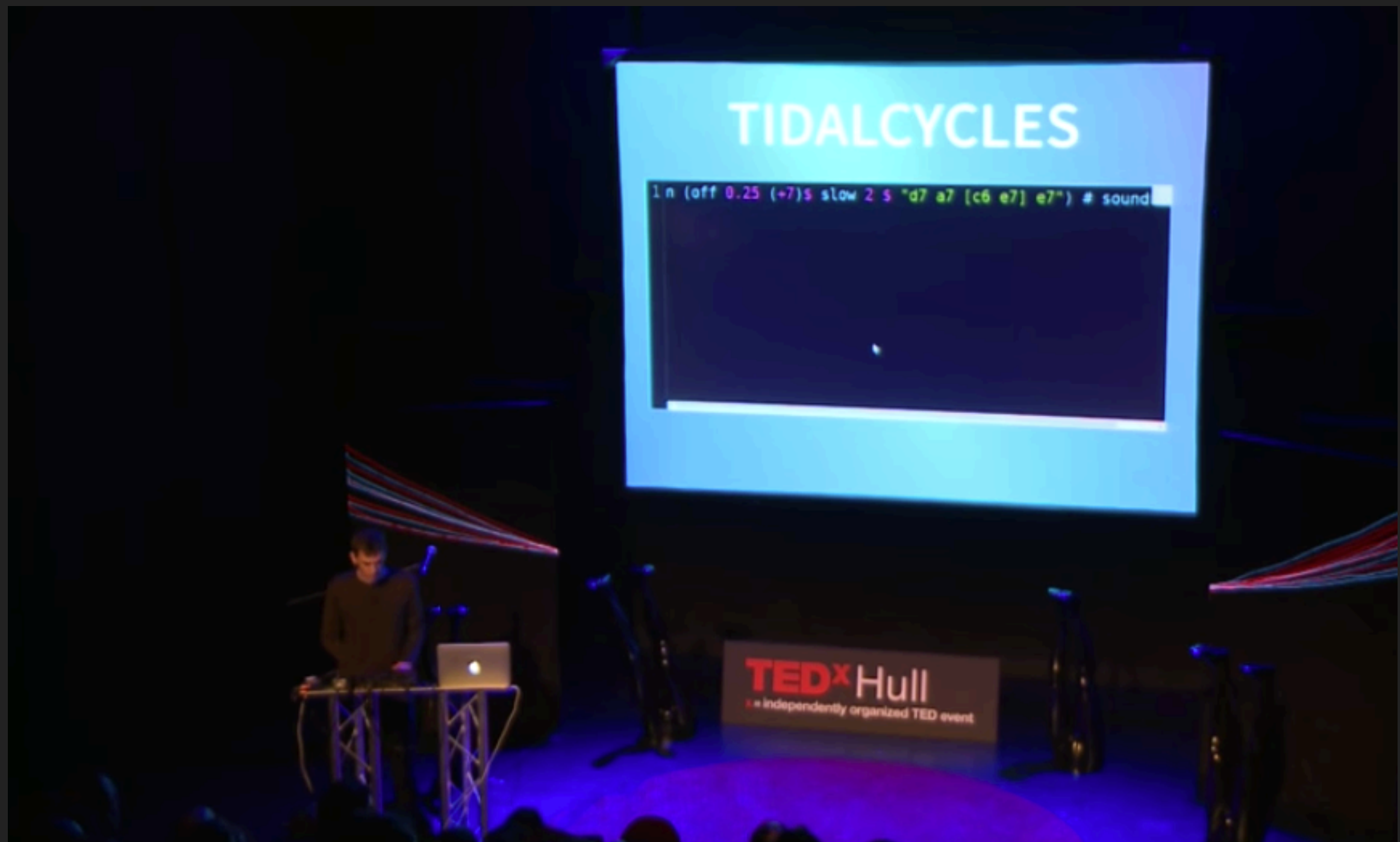


Nils Frahm



RA Sessions
Nils Frahm
All Melody / #2

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=NAGJTYA95HM](https://www.youtube.com/watch?v=NAGJTYA95HM)



Code your First Beat - Extramuros!

Select the WIFI router WAVLINK.

Open a web browser and go to 192.168.10.100:8000/index12.html

Claim a window by typing "--your name"

```
d1 $ s "bd [sd sd] hh"  
d2 $ s "bd [sd sd sd] arpy arpy"  
d3 $ s "bd [sd cp sd sd]"  
d4 $ s "arpy bass2 feel future"  
d1 $ silence  
hush
```


Live Coding Intro - TidalCycles

<https://tidalcycles.org/>

<https://tidalcycles.org/patterns.html>

```
d1 $ slow 2 $ sound "bd*4" # crush "4" # speed "2"
```

```
d1 $ sound "bd(3,8) sn(5,8)"
```

```
t1 (xfadeIn 16) $ sound "bd(5,8)"
```

ACTIVITY 1

LIVE CODING CHAOS

ACTIVITY 2

LIVE CODING JAM

LIVE CODING JAM

- ▶ **Create a group.** Work with people you don't know. Focus on listening!
 - ▶ **Talk** about what you want to do in your jam. What type of music, what emotions, what feeling, what sounds.
- ▶ **Perform your jam** for everyone else!
- ▶ Creative constraints:
 - ▶ 2-3 minutes in length! This will be timed!
 - ▶ Don't plan everything - listen and improvise!

LET'S JAM
