

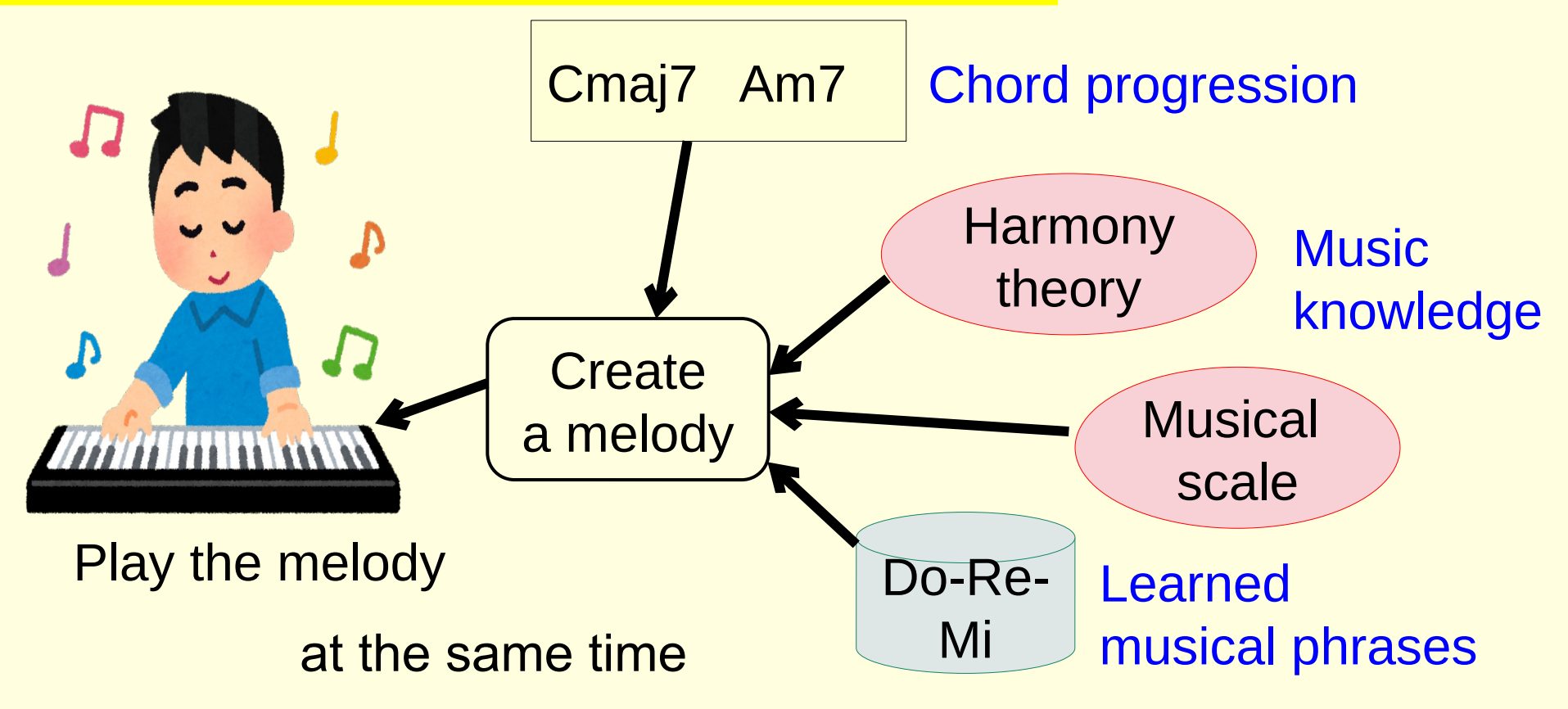
JamSketch Deep α : Towards Musical Improvisation based on Human-machine Collaboration

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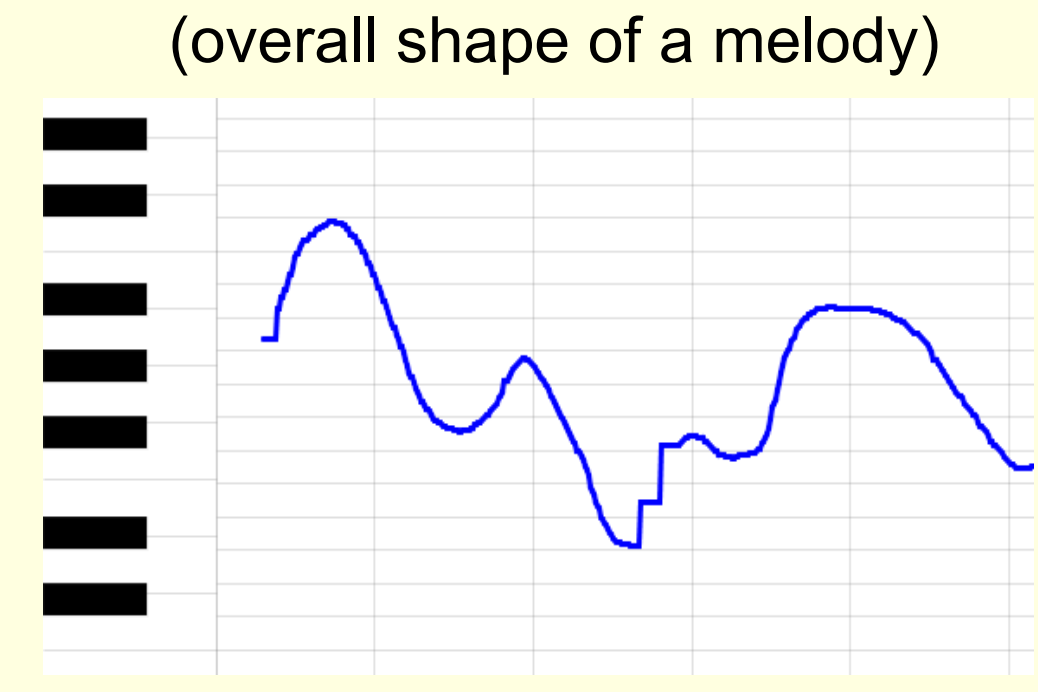
Goal To enable everyone to enjoy musical improvisation
including non-musicians

Key idea

Why improvisation is difficult

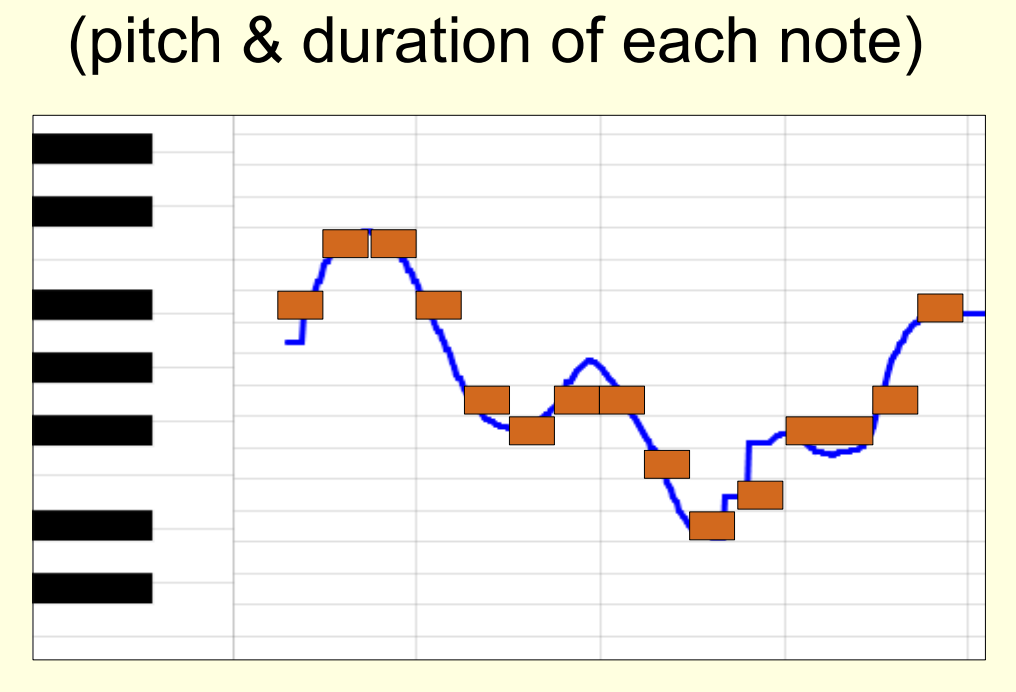


Macro structure
(overall shape of a melody)



by user

Micro structure
(pitch & duration of each note)

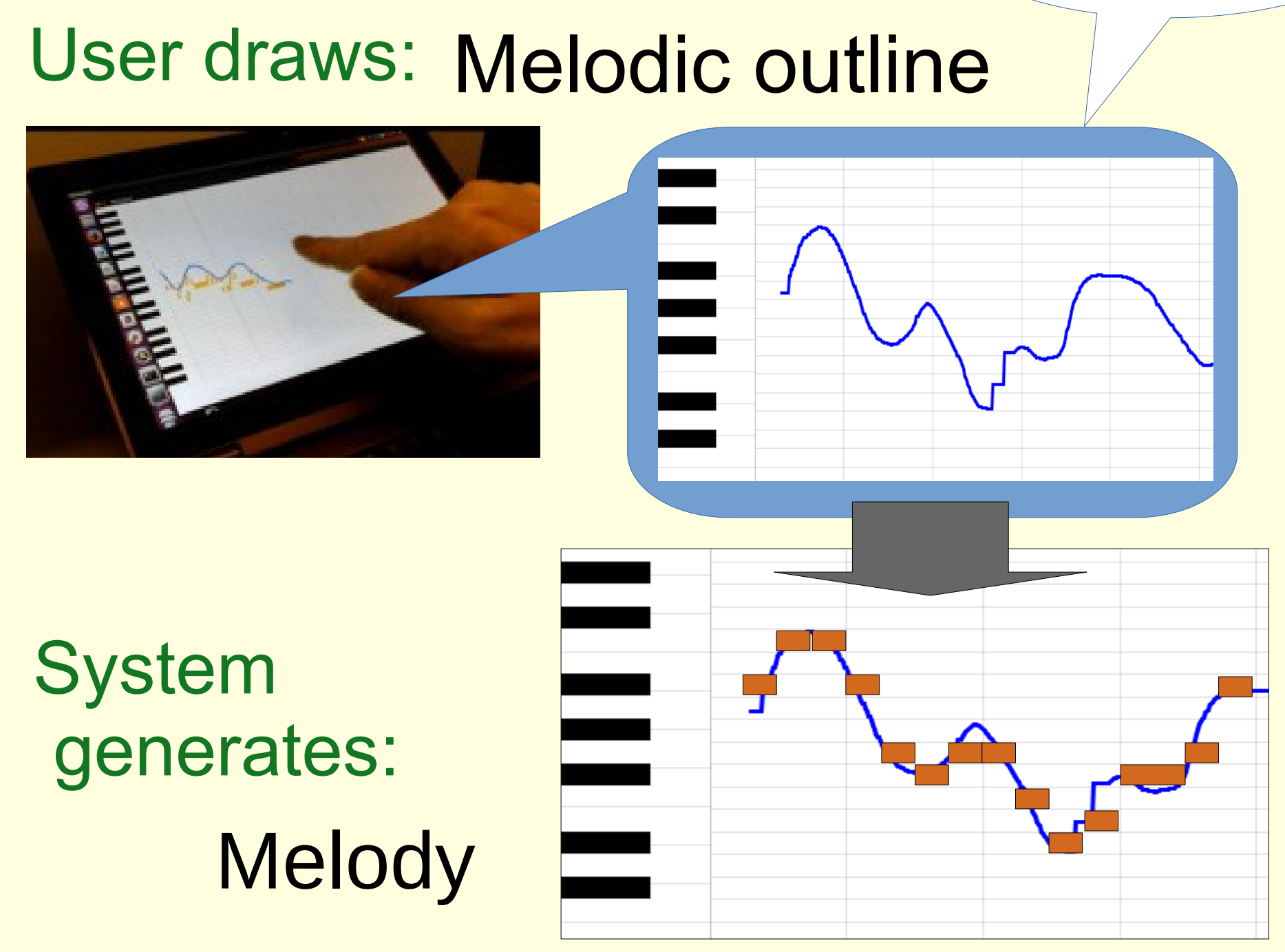


by system

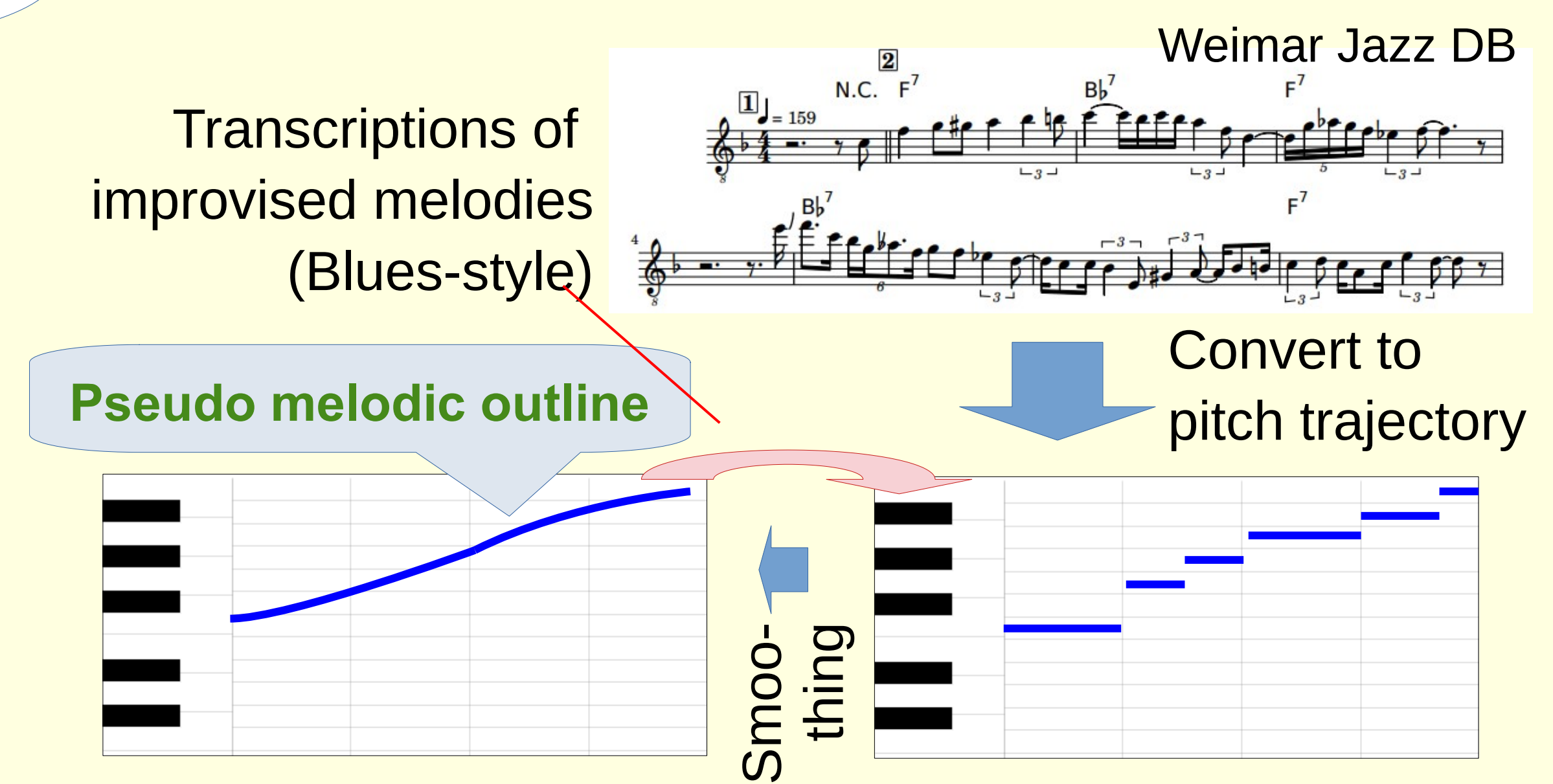
Our system

JamSketch Deep α

System overview

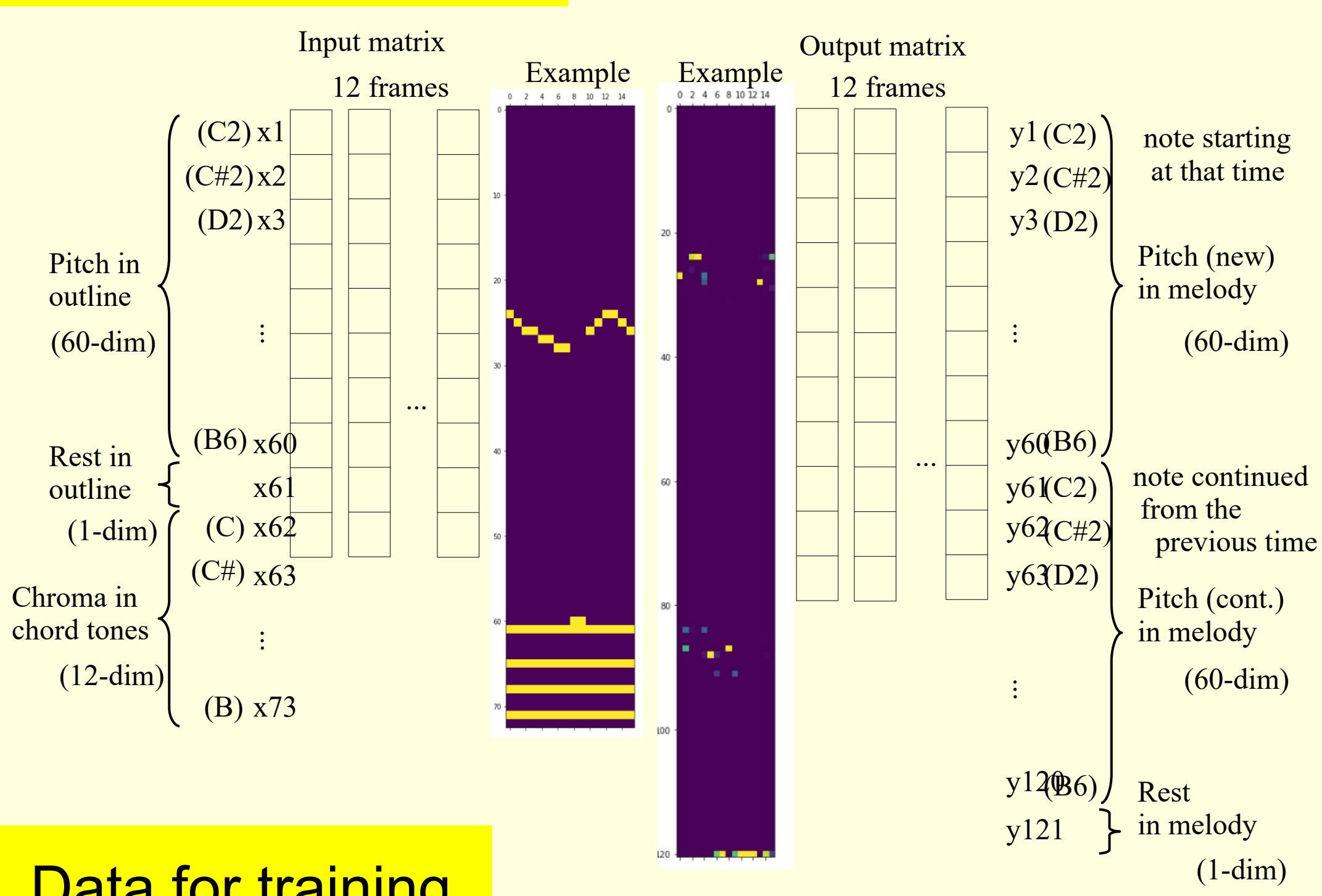


Key idea for learning & generating melodies



Estimate a **pre-smoothing** pitch trajectory from a **post-smoothing** one with a **CNN**

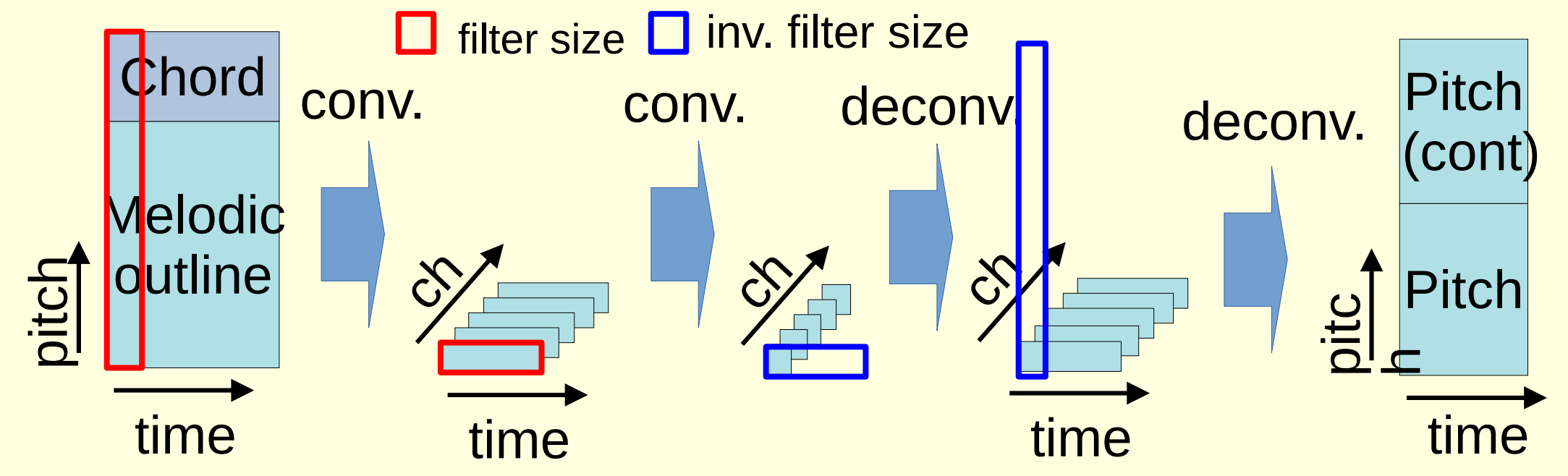
Data representation



Data for training

96 Blues melodies from **Weimar Jazz Database**

Model



Let's download & try it!

Execution file for Windows is available at:
<https://github.com/kitaharalab/JamSketch/releases/tag/releasev2>



(Android version is under development)