5. Electrophones

• This category is NOT from the 3-4\textsuperscript{th} C. BC, but from the 20\textsuperscript{th} century.

• Includes all instruments made with electronic sounds: synthesizers, theremin, etc.
5. Electrophones

• **Theremin**
  - Leon Theremin, 1920s, Russia  
  [https://www.youtube.com/watch?v=flcsn9hzI84](https://www.youtube.com/watch?v=flcsn9hzI84)

• **Clara Rockmore**  
  [https://www.youtube.com/watch?v=pSzTPGInaSU](https://www.youtube.com/watch?v=pSzTPGInaSU)

**Ex:** Bernard Herrmann –
“**The Day The Earth Stood Still**”  
(1951)  
[https://www.youtube.com/watch?v=3ULhiVqF5U](https://www.youtube.com/watch?v=3ULhiVqF5U)
Electrophones (cont.)

- **Electric Organ**

  Ex: Booker T & The MGs – “Chinese Checkers” (1963)

  Ex: Jackie Mittoo – “Black Organ” (1967-8) 2 sounds
Electrophones (cont.)

• **Electric Piano, Keyboards**
• Piano with a pickup (like electric guitar)

Ex: Beastie Boys – “To All the Girls” (1989) (:55)

• Keyboard: samples of instruments and sounds
Electrophones (cont.)

- **Synthesizers**
- Ex: Ohio Players – “Funky Worm” (1972) (:45)
- Ex: Prince – “Kiss” (1986)
Samplers and Drum Machines

- Keyboards are samplers
- This is simply a different design

https://www.youtube.com/watch?v=x91XkmI0DI0
Samplers and Drum Machines

Drum Machine with a band:

Ex: ZZ Top – “Sharp Dressed Man” (1983)
Turntablism and DJs

• What is Djing?
• Records (Vinyl)
• Breaks/Break beats
• Beat Juggling

• Ex: Scratch (film, 2002)
• 17:00-19:30 demo
• 15:00 – new song out of old
• 28 – beat juggling example
• 62:30 – creating your own vinyl

https://www.youtube.com/watch?v=YEKRA-nZleM
Turntablism and DJs

Two Famous Break beats, and their sample:

   (drums by Clyde Stubblefield, sample at 5:30)

2. Ex: Led Zeppelin – “When the Levee Breaks” (1971)
   (drums by John Bonham)


Ex: Beastie Boys – “Rhymin’ and Stealin’” (1986)
Samplers and Drum Machines

Turntables and Samplers:

• Multiple samples in one song:


Ex: Jurassic 5 – “Swing Set” (2000)
Instrument Identification

• Garageband Examples (Loaded Gun, For the Voiceless)

• Try to identify all of the instruments in the following songs

• Try to be specific: guitar, piano, etc.

• Can you identify them all? Some are hidden in the mix (what does this mean?)
Instrument Identification

• “Springfield Soul Stew” (1991)
• Booker T and the MGs – “Green Onions” (1962)
• The Meters – “Just Kissed My Baby” (1974)
• Jack White – “High Ball Stepper” (2014)
• Christina Aguilera feat. Lil’ Kim –
  “Can’t Hold Us Down” (2002)
• Rolling Stones – “Miss You” (1979)
• Isaac Hayes – “Walk On By” (1969)