

Presented by Joe Chappell – Connected HHI
Online Music – Tis the
Season!



Presentation Flow



Overview



Digital Music Services



How and Where to Enjoy Digital Music



A Review of Reference Sources



Q&A



*Full presentation available for download



Evolution of Music in the Home

- Instruments and Vocals - Live
- Phonograph – 1877 – tinfoil and wax, Vinyl 1930
- Radio – 1897, Transistor Radio 1954
- TV - 1938
- Computer – 1987 – first sound card
- Portable Devices – First iPod 2001
- Sonos - 2005
- Amazon Echo - 2014



Streaming Music Services - Examples

- Free*
 - Pandora
 - Tune-In
 - Spotify
 - Music Choice
 - Sonos
 - YouTube Music
- Paid
 - Apple Music
 - Amazon Music
 - Spotify
 - Music Choice

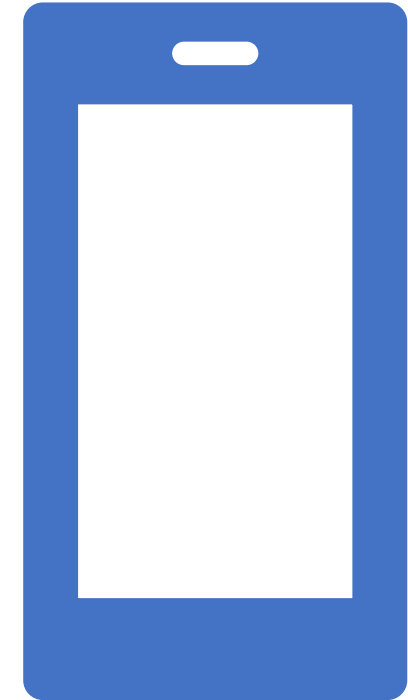
See <https://support.sonos.com/en-us/services> for a more comprehensive list



Demo Spotify

How to Enjoy Digital Music

- Computers – use external speakers for best results
- Tablets and Phones – best for streaming to other devices
- Streaming servers – connected to traditional “stereos”
- Bluetooth Speakers – need to stream to them
- Smart Speakers – Amazon Echo and Sonos
- TVs
- Cars



Bluetooth Devices – “Connected Sound”

- Stereo Receivers
- Soundbars
- Portable Speakers
- Headphones
- Earbuds
- Cars

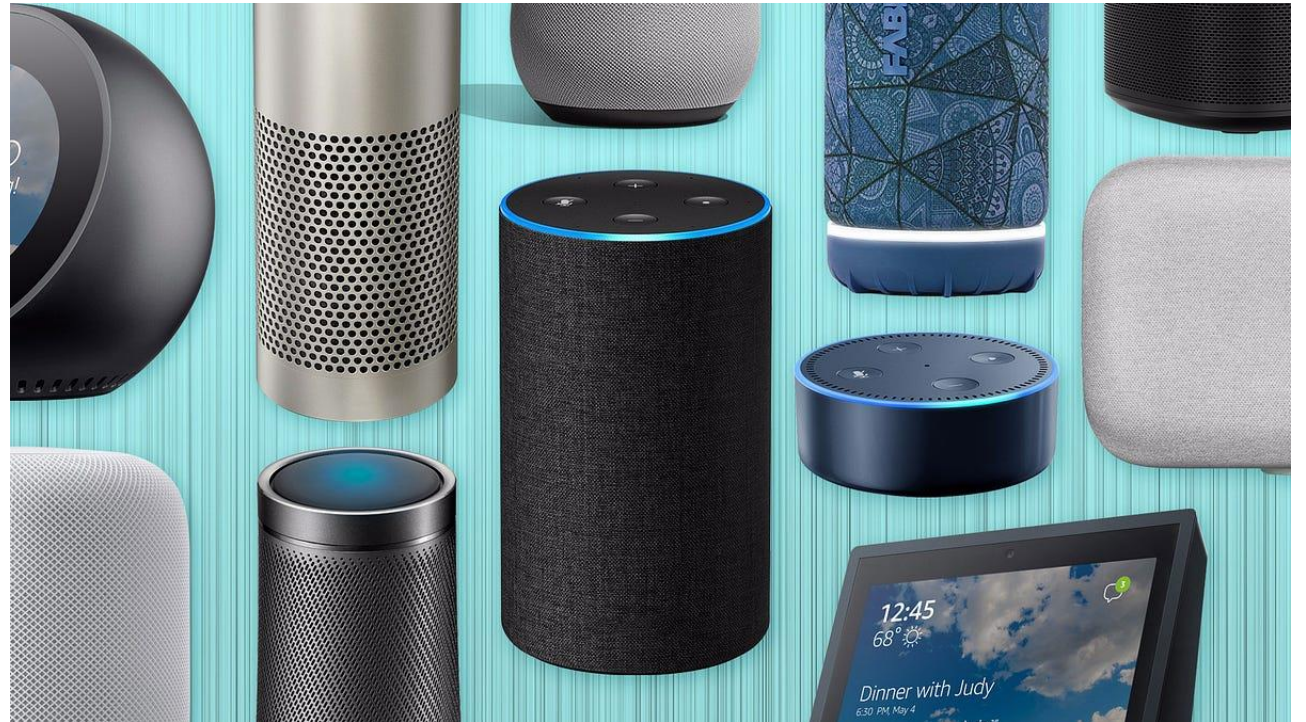
See:

<https://www.nytimes.com/wirecutter/reviews/best-bluetooth-speaker/>



Streaming Speakers – stream and play

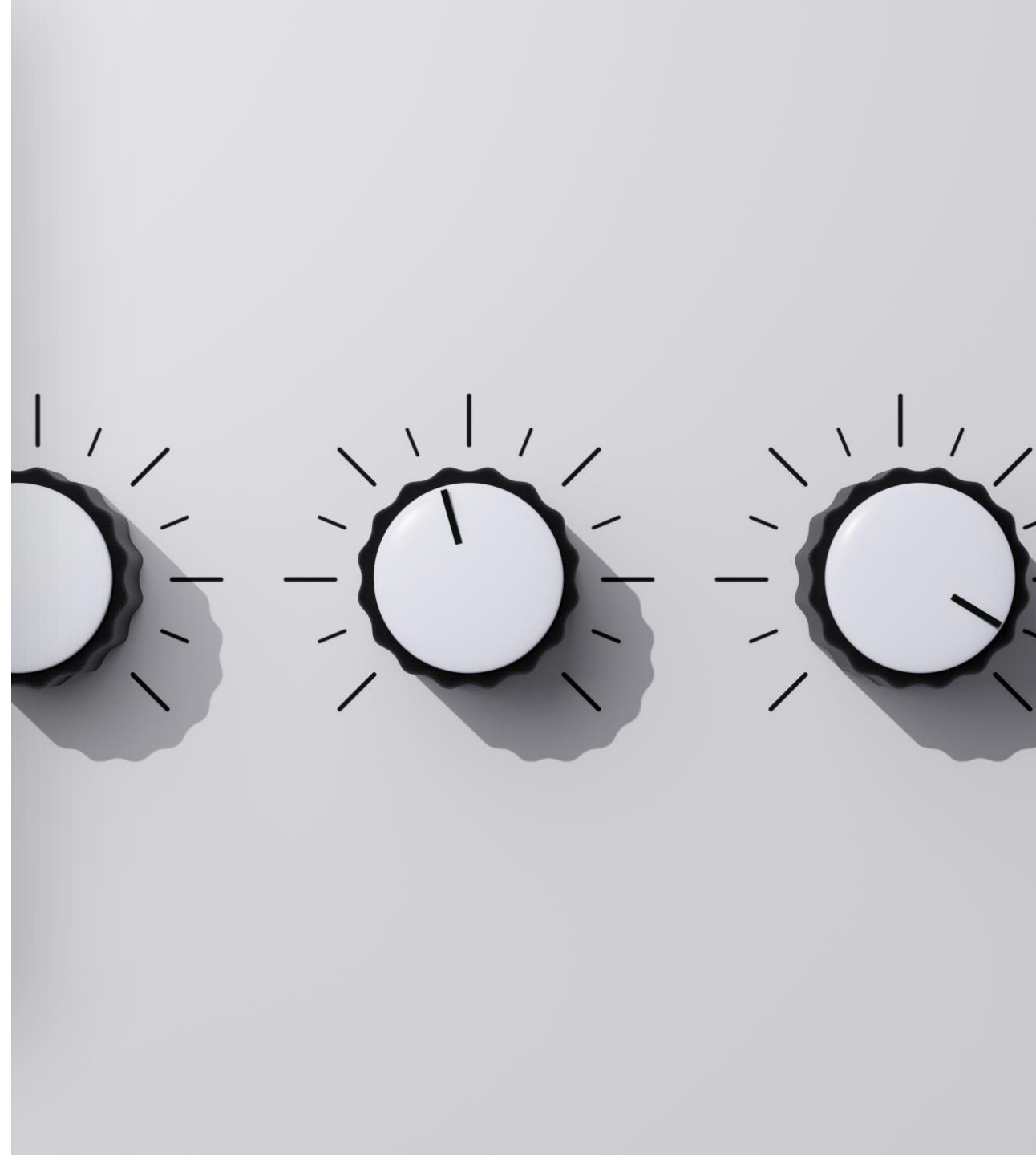
- Amazon Echo (lost \$3b)
- Google
- Sonos (\$1.65b)
- Apple
- Many others



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Considerations

- Budget – speakers and monthly service subscriptions
- Quality of sound
- Bluetooth versus Streaming Speaker
- Stationary versus portable
- One music source vs multi-location synchronized sound
- One user vs multiple
- User Interface – voice vs phone vs computer



Demo



Streaming on an Amazon Echo

Reference Article:

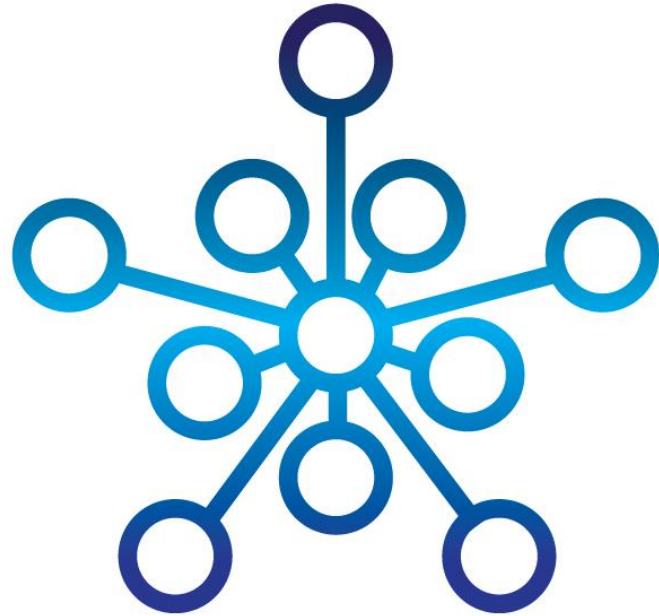
<https://www.pcmag.com/how-to/how-to-listen-to-music-on-your-amazon-echo>



A close-up photograph of a vintage gramophone's tonearm and stylus, with a blurred background showing a person's face. The text is overlaid on the left side of the image.

Where Can You Enjoy Digital Music

Anywhere and Everywhere!



Connected HHI

Q&A

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