RNNs Still Excel in These Domains

Time Series
- Stock prediction
- Weather forecast
- Energy demand

Sequential patterns

Music Generation
- MuseNet
- Magenta
- MIDI composition

Temporal dependencies

RNNs in 2024

Speech Recognition
- Google RNN-T
- Siri on-device
- Alexa

Streaming processing

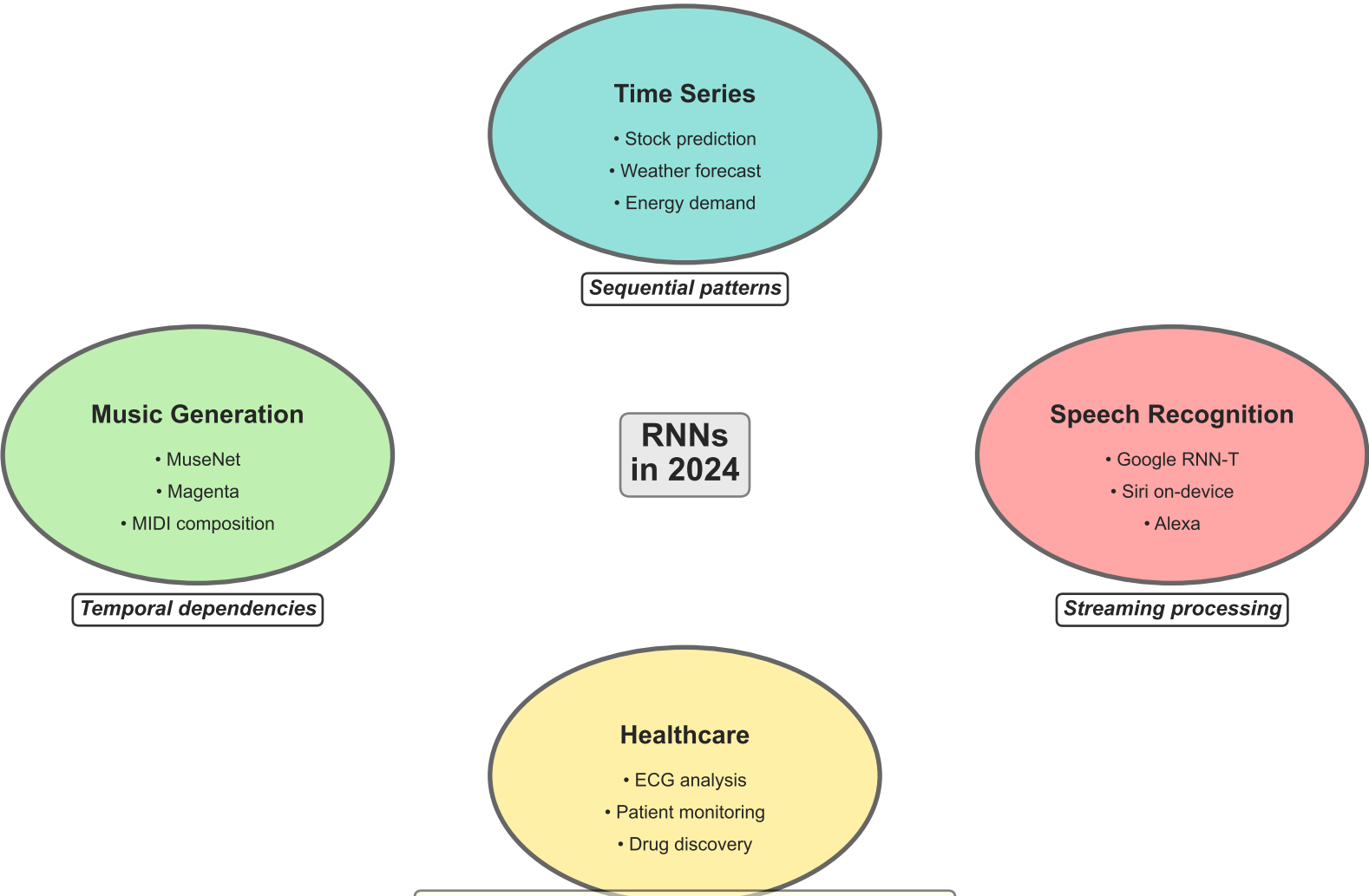**Healthcare**
- ECG analysis
- Patient monitoring
- Drug discovery

Real-time processing

Note: Despite Transformers, RNNs dominate when:
• Memory constraints exist (mobile/edge)
• Streaming/online processing needed
• Clear sequential patterns present