

CS 925

# Lecture 16

Real-Time Traffic and  
Media Delivery

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Thursday, March 26, 2024

# Real-Time Traffic

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- ▶ **Elastic** vs **inelastic** traffic (rate adaptation)
- ▶ Real-time transport
  - timing is critical (low latency and low jitter)
  - perishable data
  - (often) constant rate of delivery
- ▶ Hard vs soft real time...

# Media Delivery

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## ► Challenges

- multitude of formats
- multitude of server and player (client) capabilities
- multiple simultaneous streams (video, audio, text) delivered
- synchronization between streams
- stream control (play, pause, fast-forward, ...)
- changing network conditions
- security and content protection
- real-time, near real-time, on-demand (VOD)