

A thick black L-shaped frame surrounds the text. It starts at the top left, goes right, then down, then right again, and finally down to the bottom right corner.

MANAGED MOBILITY

Latency Management in Named Data Networking (NDN)

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Named Data Networking (NDN) and Contemporary Temporal Experience

- Theoretical Background on Temporal Aesthetics and Technology
- Description of NDN History, Architecture and Goals based on document analysis
- Implications

Theoretical Background

- Bergson's notions of *temporality* and *duration*
- Stiegler's *retention* and *protention*

Named Data Networking (NDN)

We spend like 80% of our effort trying to bash the tools into shape and only spend 20% on the problems. In vocabulary terms, IP is like a good middle school education. There's a lot of things you can say and communicate in society but it's not so great for writing a poetry volume or a thesis. The Web kind of brought us up to high school and the expressivity in things like XML and Ajax. You can work at a higher level, accomplish a lot more, but you're still pretty limited by this conversational client-server model. The real goal of NDN was to get us into college. To have a set of idioms, vocabulary that would let us naturally express the high-level things that Jeff presented, that we want to see. — Van Jacobson, 2013

- History & departure from Internet Protocol (IP)
- Relation to Integrated Content Networking (ICN) and Content Centric Networking (CCN)
- Architecture

NDN Architecture (hourglass structure)

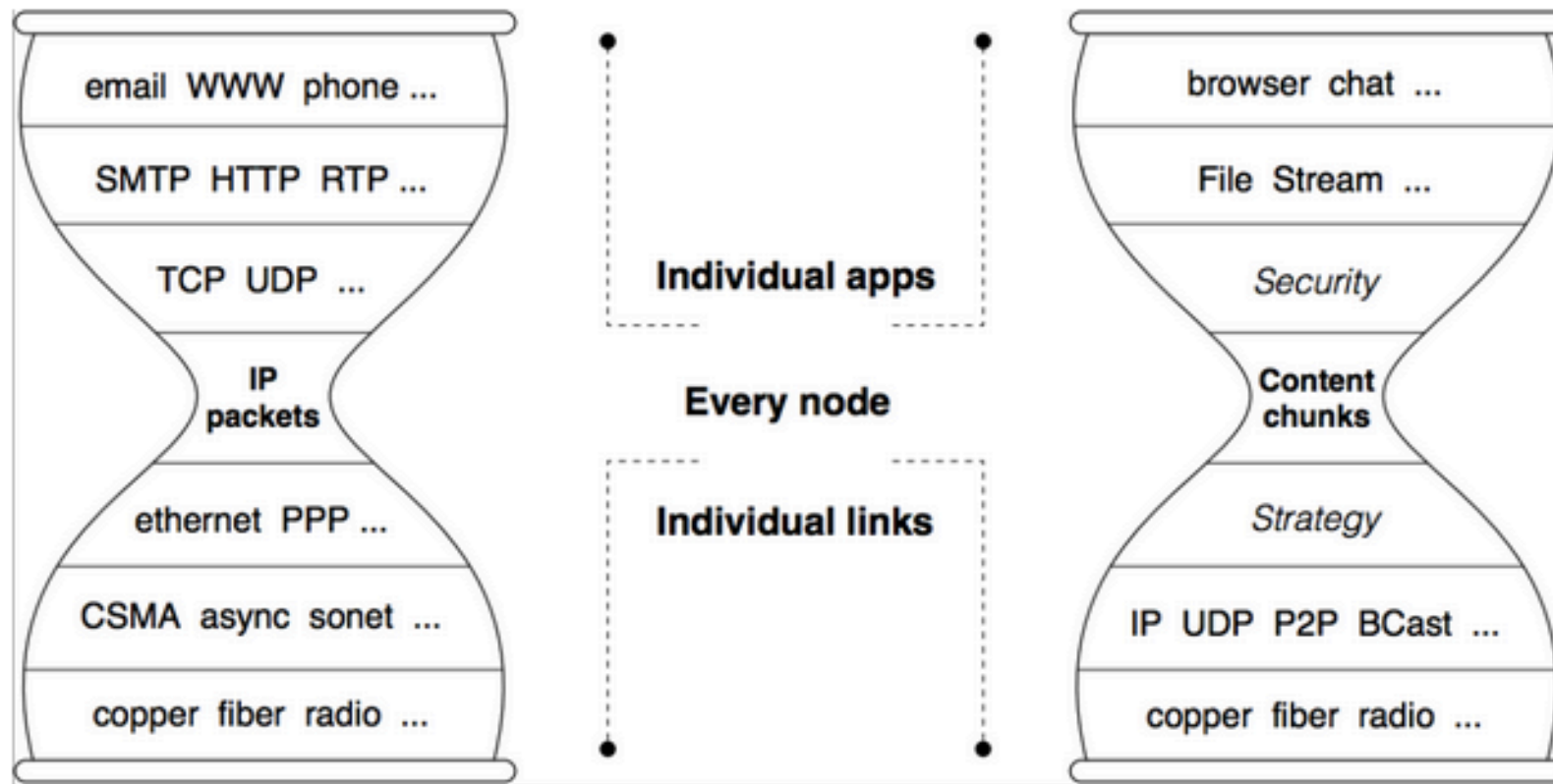
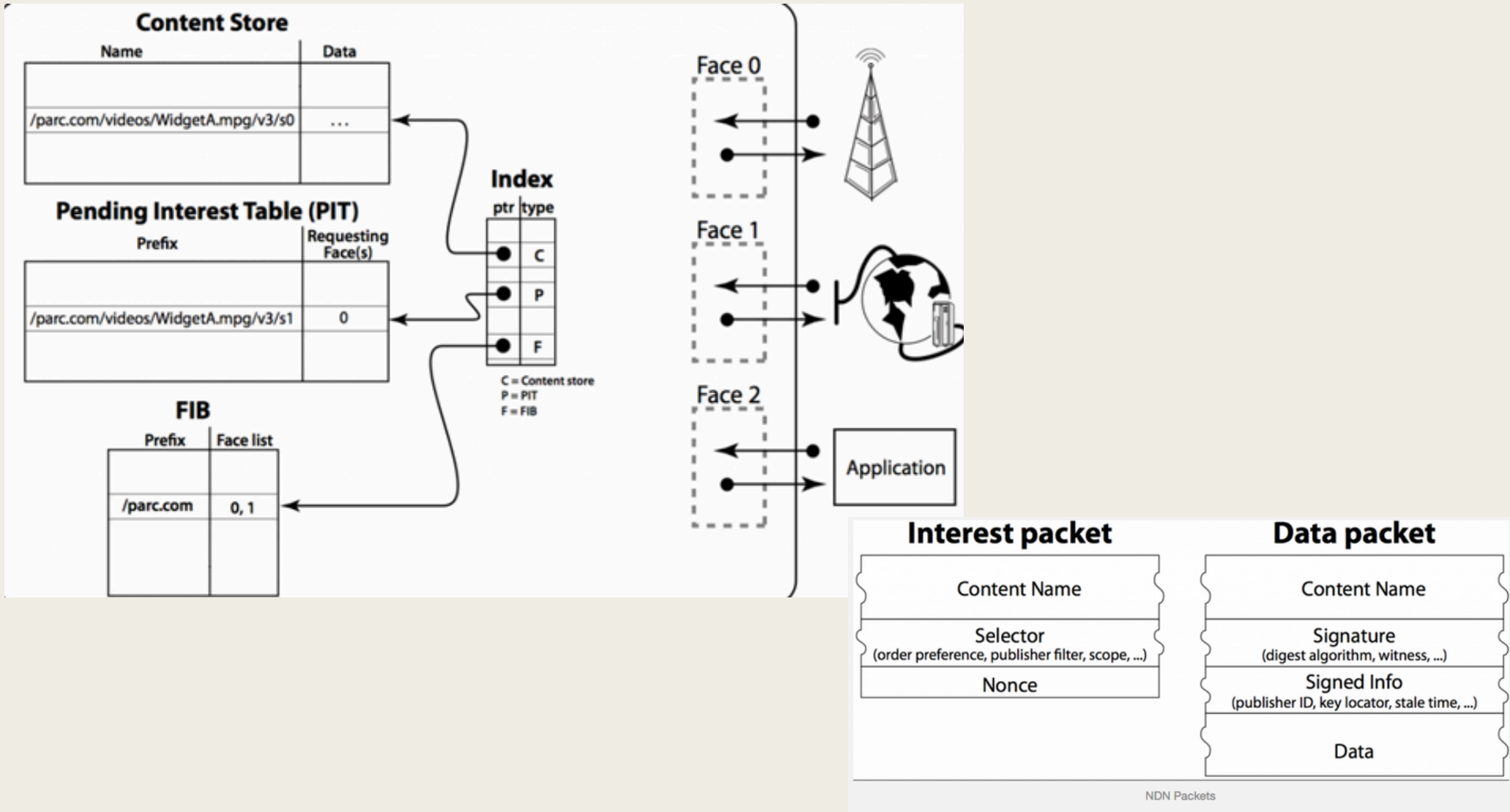


Figure 1: Internet and NDN Hourglass Architectures

NDN Architecture (continued)



Document Analysis of Design of Temporal Experience in NDN

- “Efficiency” is code for speed of data delivery regardless of data quality
- “Content” as driving metaphor for data
- Users framed as “consumers”
- Goals articulated as “driving competition”, but not “managing control”

Implications

- Data bubbles
- Ownership
- Monetization
- Regulation
- Epistemology