



Structured TV Shows --- "You've been chopped!"

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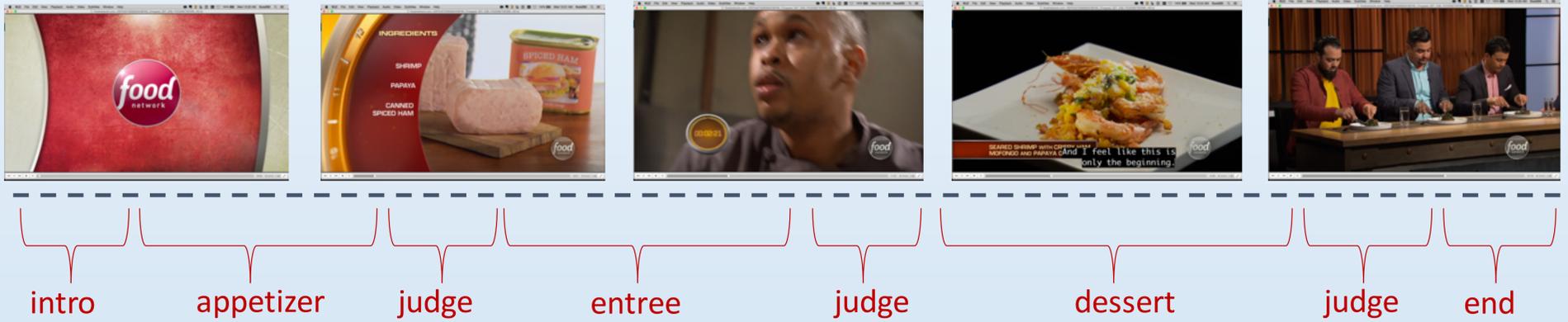
Comcast Labs

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What are structured TV shows?

- All episodes share semantic structure (e.g., Intro - Appetizer - Judging - Entrée - Judging - Dessert - Judging - End)
- Section changes are often cued by visual-audio-text signals.

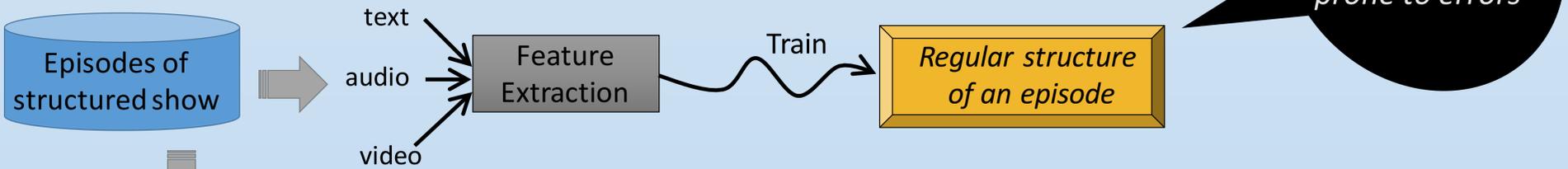


Why do we want to segment?

- Better understanding of content
- Allow finer-grained search (e.g., "find cacao in appetizer")
- Chapter videos for easier navigation
- Create vertical compilations of content (e.g., playlist of all dessert segments)

How can we segment?

Learn regularities across large amounts of data using Machine Learning:

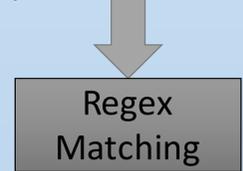


Our Method: Exploit domain knowledge to create regular expressions that detect segment changes.

Domain knowledge is provided by a viewer of the show.

- Identify known segments in the content layout
- Identify regular expressions that signal the start/end of a segment

Time stamped captions



Good episodes



Inverted index of **food phrases** appearing on screen (OCR around segment boundaries) or closed captions.

Bad episodes



Segmented episodes



Inverted index



query

Try our Demo!

