

#### Video Documentaries on the Web

- ☐ Traditional video authoring: there is only one final version, what is shown is the choice of the author/editor
- ☐ Proposed video authoring:
  - Annotate the video material semantics
  - Show automatically what the user asks to see, using presentation forms a film editor would use

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## Video material

- ☐ Focus on video interviews about controversial issues
- Interview with America video footage with interviews and background material about the opinion of American people after 9-11

www.interviewwithamerica.com

# Example: What do you think of the war in Afghanistan?



"I am never a fan of military action, in the big picture I don't think it is ever a good thing, but I think there are circumstances in which I certainly can't think of a more effective way to counter this sort of thing..."



## **Scenarios**

- □ Augmenting one interview with manon-the-street opinion ( "Vox Populi" documentary)
- □ Overview of the content of video footage:
  - Example: trailers ("Voices of Iraq")
  - Browse the content by opinion

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## The annotations

- □ Rhetorical
  - Rhetorical Statement (mostly verbal, but visual also possible)
  - Argumentation model: Toulmin model
- Descriptive
  - Question asked
  - Interviewee (social)
  - Filmic next slide

## Filmic annotations

#### Continuity, e.g.

- lighting conditions
- background sound
- gaze direction of speaker left, centre, right
- framing continuity close-up, medium shot, long shot
- camera movement none, pan left/right, shaking, tilt up/down, zoom in/out

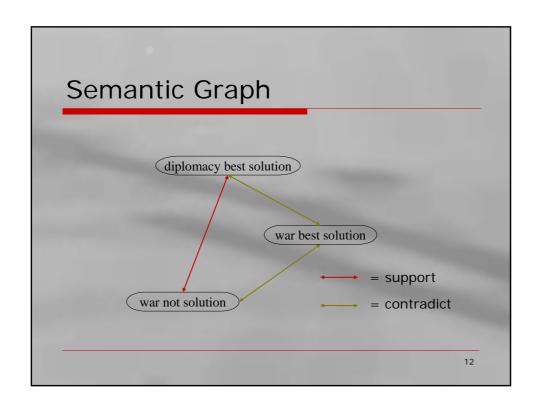
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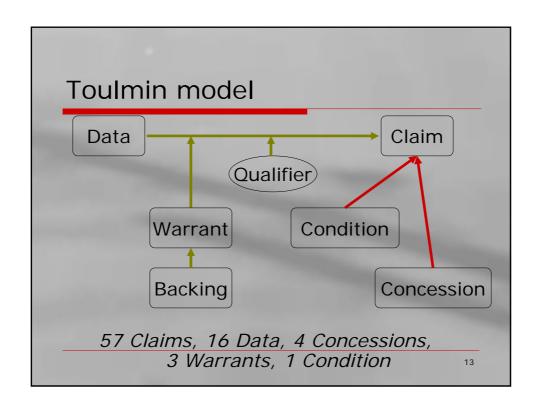
## Statement encoding

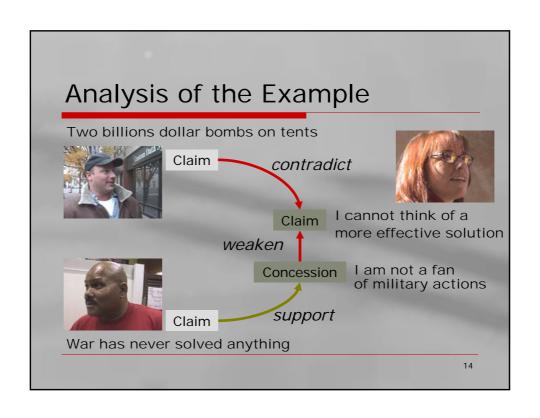
- ☐ Statement formally annotated:
  - <subject > < modifier > < predicate >
  - E.g. "war best solution"
- ☐ A thesaurus containing:
  - Terms (155)
  - Relations between terms: similar (72), opposite (108), generalization (10), specialization (10)
  - E.g. war opposite diplomacy

## Connect statements

- ☐ Using the thesaurus, generate related statements and query the repository
  - "war best solution",
  - "diplomacy best solution",
  - "war not solution"
- ☐ Create a graph of related statements
  - nodes are the statements (corresponding to video segments)
  - edges are either support or contradict







## Facts and features

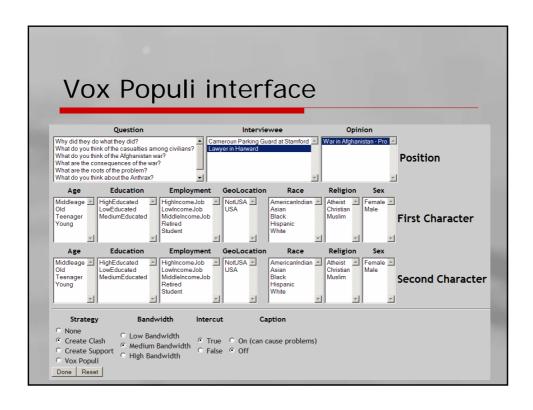
- □ Annotations: 1 hour annotated, 15 interviews, 60 interview segments, 120 statements
- ☐ Partially tunable: examining the Segment graph gives feedback on the quality of the annotations and the thesaurus



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## Controlling the Bias

- □ Video documentaries are not neutral account of reality: the selection and editing of the footage expresses a point of view
- Editing strategy:
  - Balanced
  - Pro opinion X
  - Against opinion X
- ☐ We use:
  - Logos (the statements)
  - Ethos (based on user profile)
  - Film editing (e.g. framing, gaze)



## Conclusions

- □ Automatic generation of video interviews augmented with supporting and/or contradicting material
- ☐ The **user** can determine the subject and the bias of the presentation
- ☐ The **documentarist** can add material and let the system generate new documentaries

# Pointers & Acknowledgments

☐ This presentation and a Demo available at:

http://www.cwi.nl/~media/demo/IWA/

□ This research was funded by the Dutch national ToKeN I<sup>2</sup>RP and CHIME projects.