

# Supplementary Material for Plots to Previews: Towards Automatic Movie Preview Retrieval using Publicly Available Meta-data

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## Appendix A: Histograms

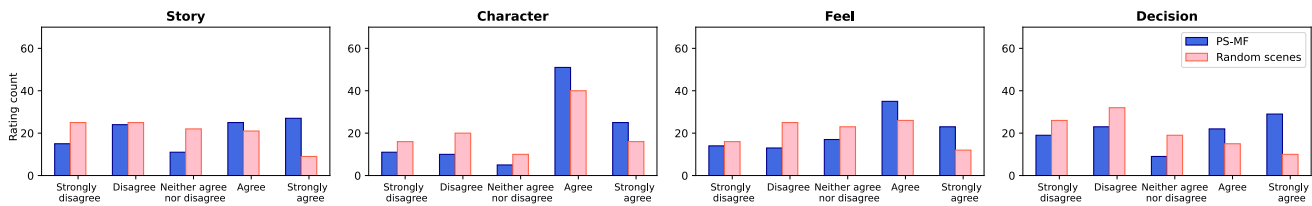


Figure 1. Histograms for Pilot experiment, Plot Summary with Multiple Features (PS-MF)

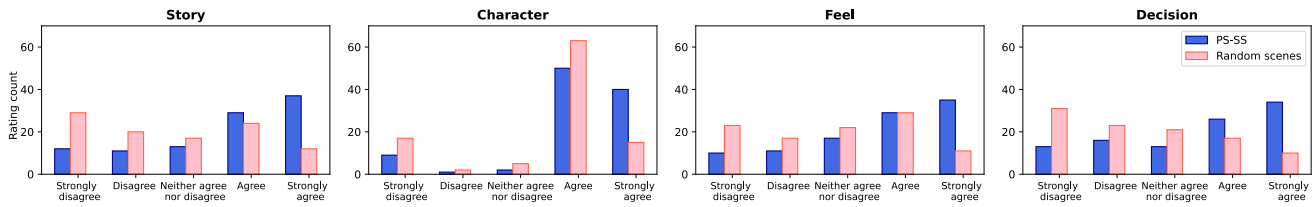


Figure 2. Histograms for Pilot experiment, Plot Summary with Scene Subtitles (PS-SS)

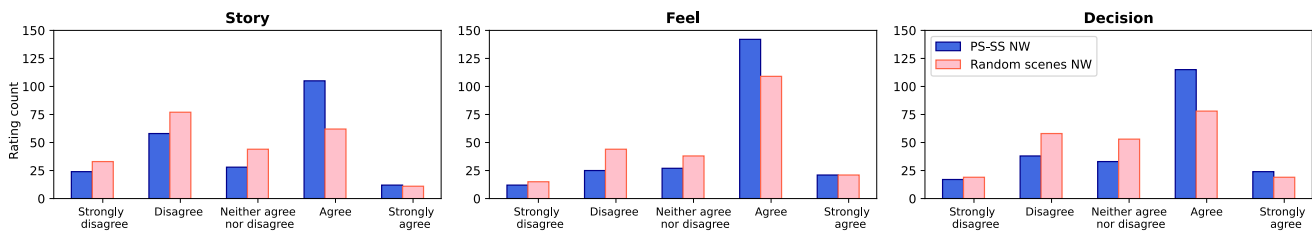


Figure 3. Plot Summary with Scene Subtitles for movies not watched (PS-SS NW) by regular viewers

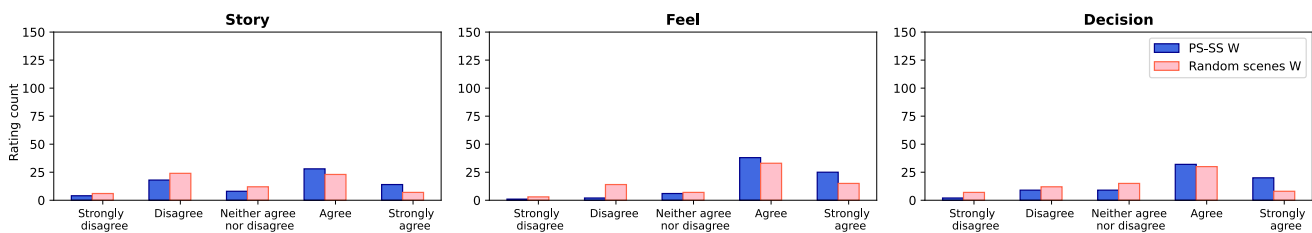


Figure 4. Plot Summary with Scene Subtitles for movies watched (PS-SS W) by regular viewers

We present histograms for the pilot experiments, plot Summary with Multiple Features (figure 1, PS-MF) and plot Summary with Scene Subtitles (figure 2, PS-SS). We also present histograms for PS-SS method considering two separate scene populations (P1) of movies watched (figure 4) and (P2) of movies not watched (figure 3) earlier by regular viewers.

## Appendix B: Sentence formation

We follow a simple syntax mentioned below based on our observations of the annotations to convert the scene tags provided by MovieGraphs dataset into natural language sentences

- **Character attribute sentence:**

$[Name] + is + [Gender] + [Age] + . + He/She is + [Profession] + . + He/She is + [E_1, \dots, E_{n-1}] + and + [E_n]$

Example: Greg Focker is male young adult. He is nurse. He is alarmed, excited, nervous, worried and cagey.

- **Interaction sentence:**

$[Ch_1] + [Interaction] + [Ch_2] + [Interaction topic]$

Example: Pam Byrnes talks to Greg Focker about strict father.

- **Relationship sentence:**

$[Ch_1] + is + [Relation] + of + [Ch_2]$

Example: Pam Byrnes is lover of Greg Focker.

- **Summary interaction sentence:**

$[Ch_1] + [Summary interaction] + [Ch_2]$

Example: Greg Focker asks Pam Byrnes.

- **Situation and place sentence:**

$[Situation] + in the + [Place]$

Example: talk about family problems in the street.

Here,  $E$  and  $Ch$  represent Emotion and Character tags respectively and  $n$  is the total number of emotion tags. Tags in the square bracket are scene tags provided by MovieGraphs dataset. Underlined words in the examples indicate extra words that have been added to form sentences. We select the appropriate pronouns (He/ She) on the basis of Gender tags (male/ female) from MovieGraphs annotations. Other words viz., ‘and’, ‘is’, ‘of’, ‘in the’ are added at a fixed position in the syntax as shown above. Lastly, a full stop is added at the end of each sentence.