**Extractive vs Human-Written Summaries**

**Extractive Summary**

"Um well this is the kick-off meeting for our project."
"so we’re designing a new remote control and um."
"Um, as you can see it’s supposed to be original, trendy and user friendly."

**Abstractive Summary**

The purpose of the kick-off meeting is to design a new remote which is supposed to be original, trendy and user friendly.

**Research Problem**

Generate Abstractive Summaries
- Synthesize useful information
- Readability

**Utterance Fusion: A Graph of Dependency Trees**

- **Sentence Fusion** technique
  - Anaphora Resolution
  - Ambiguity Resolution
- Merged Dependency Graph
- ILP Formulation
  - Constraints (Filippova and Strube, 2008)
- Linearization – ordering of nodes

**Experimental Results**

**Generated Summary:** We are designing a new remote control supposed to be original trendy and user friendly.

**ROUGE evaluation [R-2 and R-SU4] and Log-likelihood score (LL) from Stanford Dependency parser**

<table>
<thead>
<tr>
<th>Method</th>
<th>R-2</th>
<th>R-SU4</th>
<th>LL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Our abstractive model</td>
<td>0.048</td>
<td>0.087</td>
<td>-125.73</td>
</tr>
<tr>
<td>Our abstractive model (without anaphora resolution)</td>
<td>0.036</td>
<td>0.071</td>
<td>-130.32</td>
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<tr>
<td>Extractive Model (baseline)</td>
<td>0.026</td>
<td>0.044</td>
<td>-136.22</td>
</tr>
</tbody>
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**References**