

Multimodal Coreference Resolution

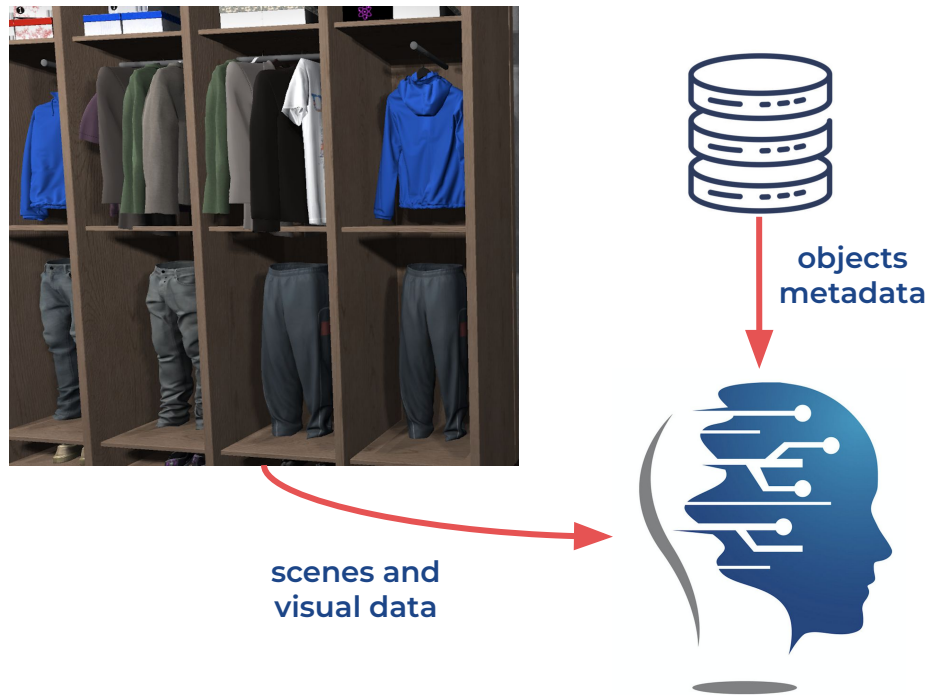


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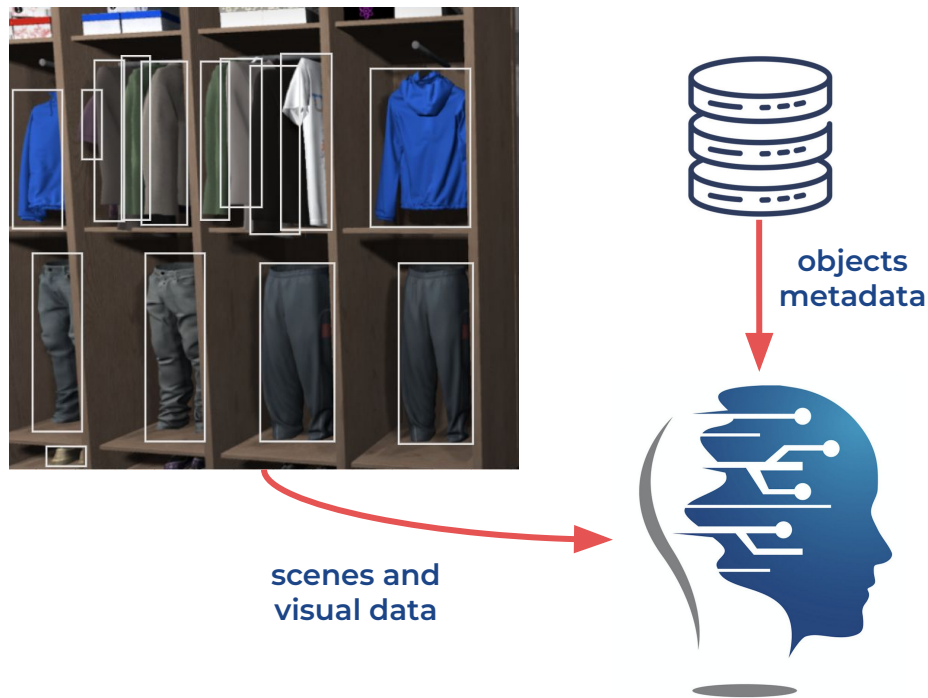
Alejandro Santorum Varela
Svetlana Stoyanchev, Simon Keizer, Kate Knill

TOSHIBA

Multimodal Coreference Resolution



Multimodal Coreference Resolution



Multimodal Coreference Resolution



scenes and
visual data



objects
metadata



Hi, do you have short
sleeve t-shirts?

Yes, we do. What
color do you prefer?



White. Similar to
the one next to
the black hoodie.

dialogue history



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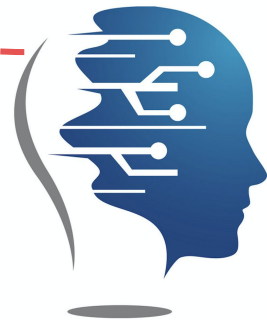
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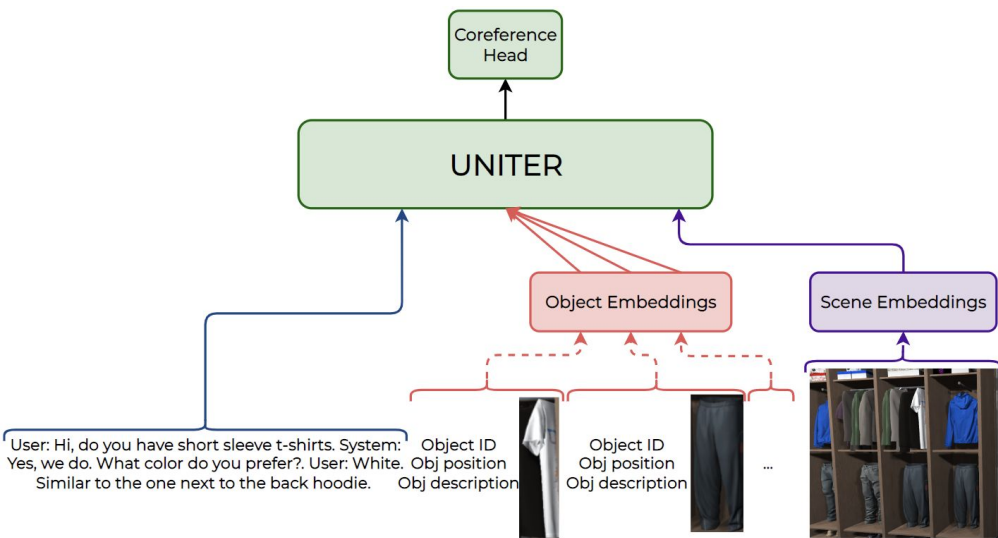
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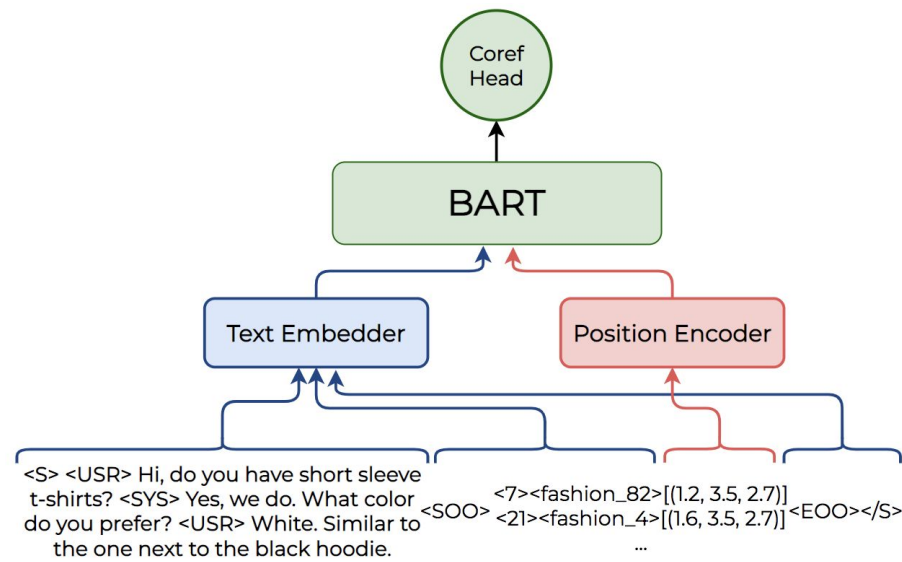
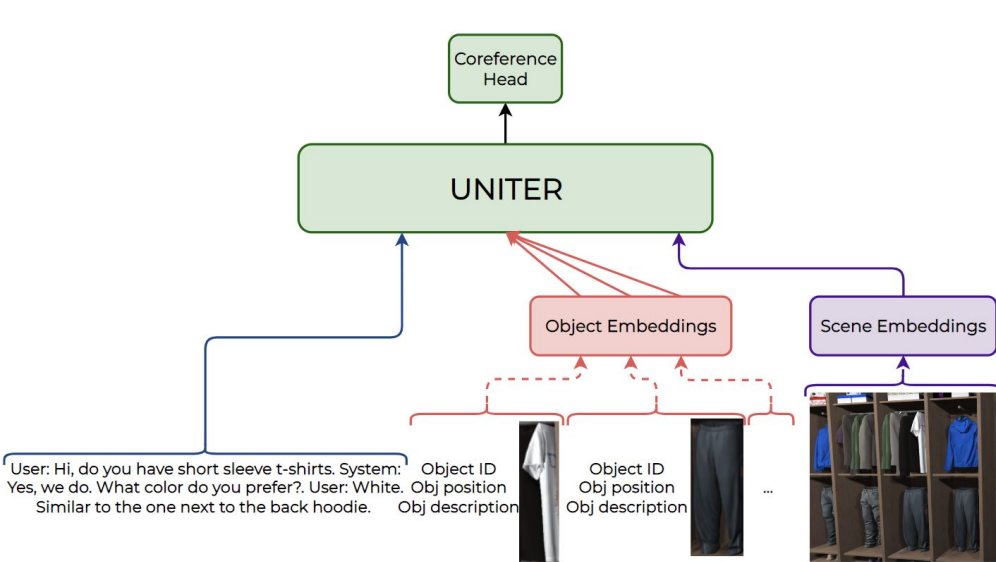
Two state-of-the-art reviewed models

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- Multimodal input transformer
- Reported performance: 0.734 F1-score

Two state-of-the-art reviewed models



- Multimodal input transformer
- Reported performance: 0.734 F1-score

- Natural language transformer
- Reported performance: 0.743 F1-score

Thank you for your attention

Feel free to ask anything in the
poster presentation