



OUTFITTERY

Supporting stylists by recommending fashion style

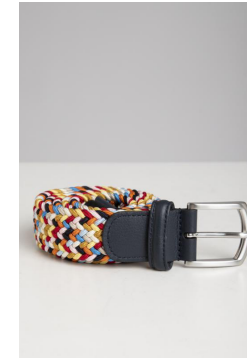
Tobias Kuhn, Steven Bourke, Levin Brinkmann, Tobias Buchwald,
Conor Digan, Hendrik Hache, Sebastian Jaeger, Patrick Lehmann,
Oskar Maier, Stefan Matting, Yura Okulovsky







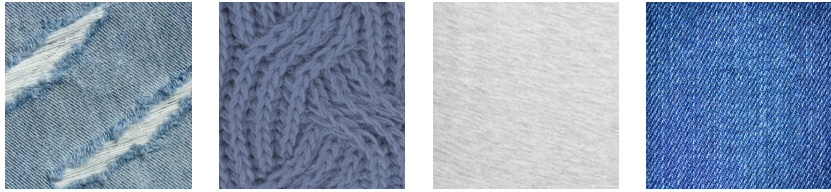
Style Fit?

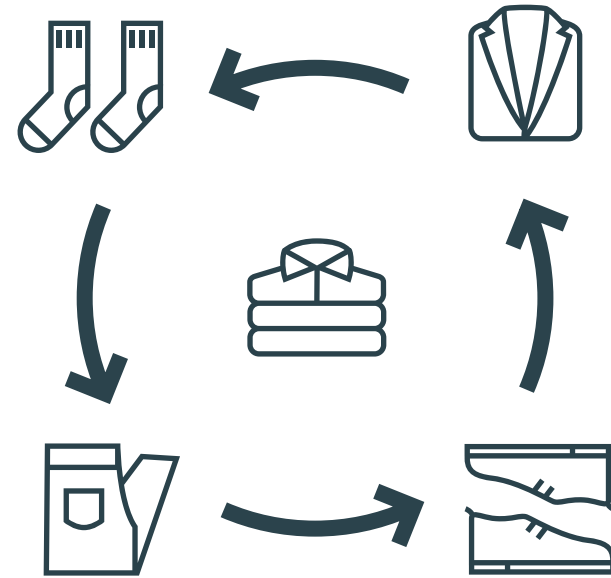
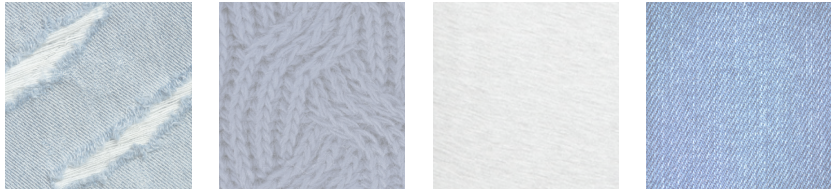




Style Fit?



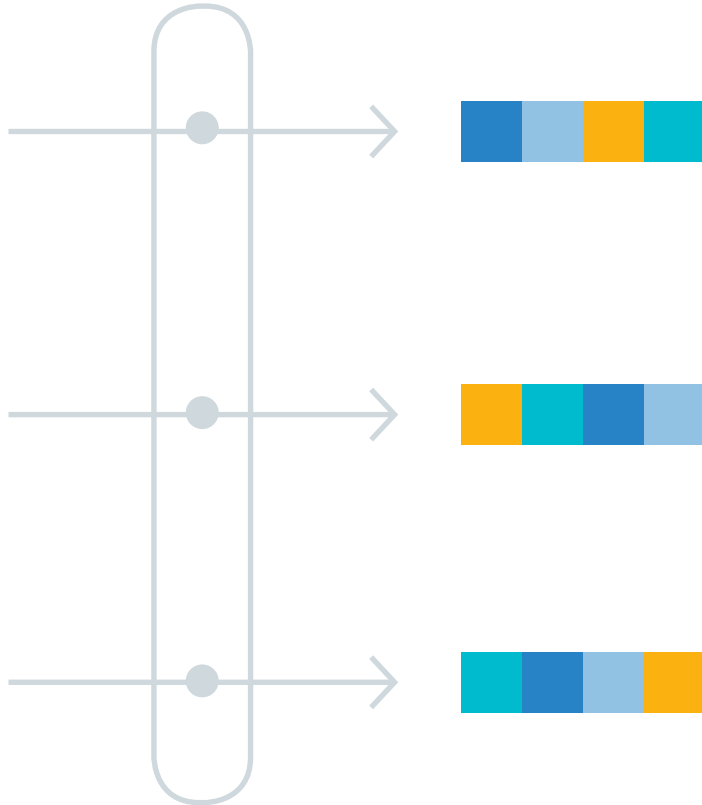




+3,000,000 Outfits



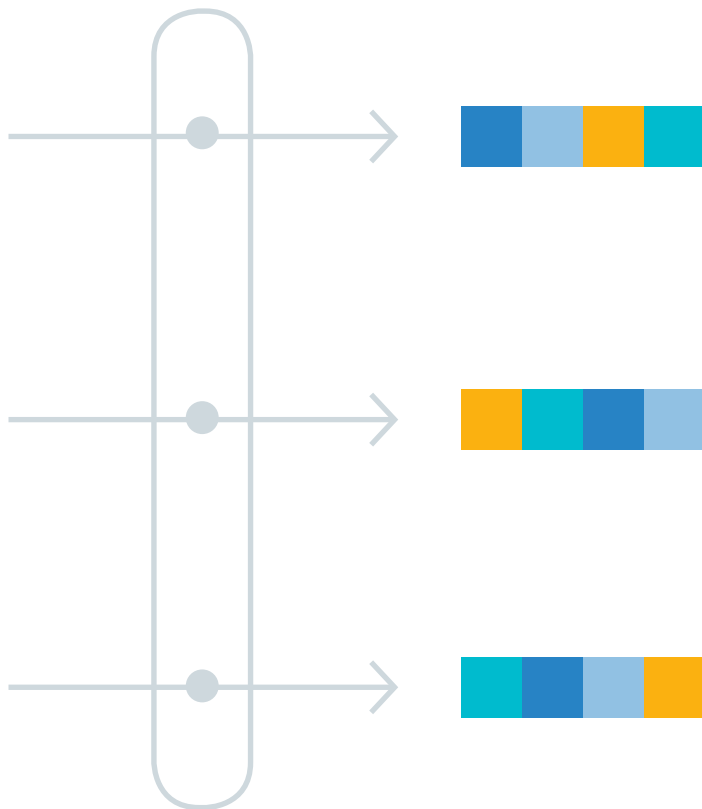




item2vec

- Latent vector representation for each item
- Using context – i.e. curated outfits – only





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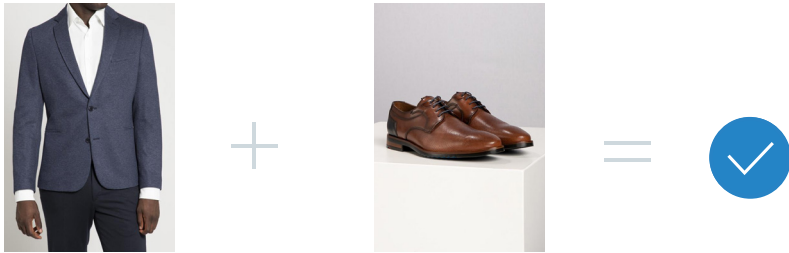
Mutually exclusive functional slots

Time-aware negative sampling strategy

Multi-item relations



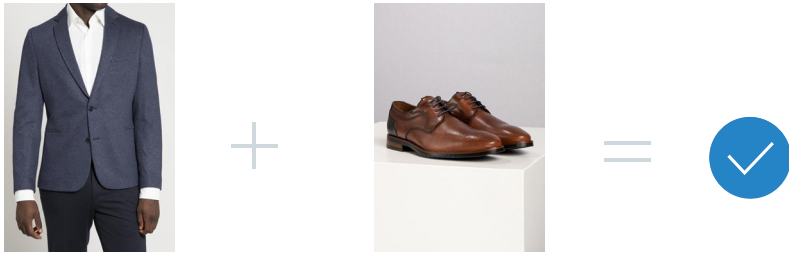
Pair Model (item-to-item)



- Cross-space cosine similarity as style fit scores

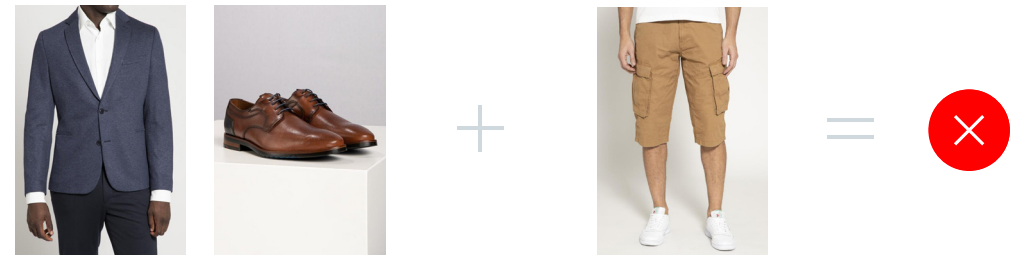
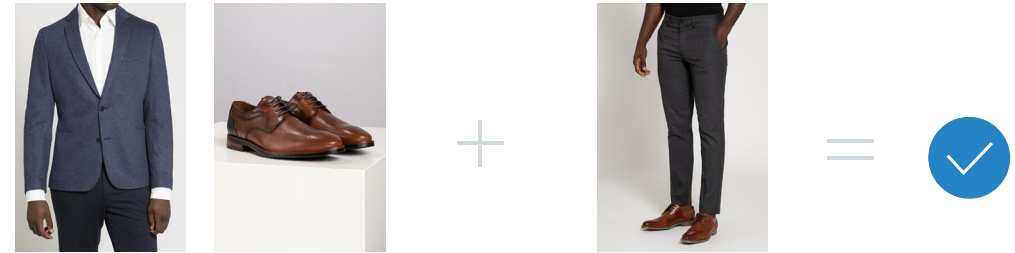


Pair Model (item-to-item)



- Cross-space cosine similarity as style fit scores

Outfit Models (item-to-outfit)



- Averaged item-to-item scoring
- Attention-mechanism weighted item-to-item scoring





t-SNE captures:

- High-level clustering on category level
- Intra-category clustering e.g. patterns, color





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Stock ranking by style fit





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Stock ranking by style fit



Outfit composition using Beam Search





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Thank you.

