

University of Waterloo Docker Images for OSIRRC at SIGIR 2019

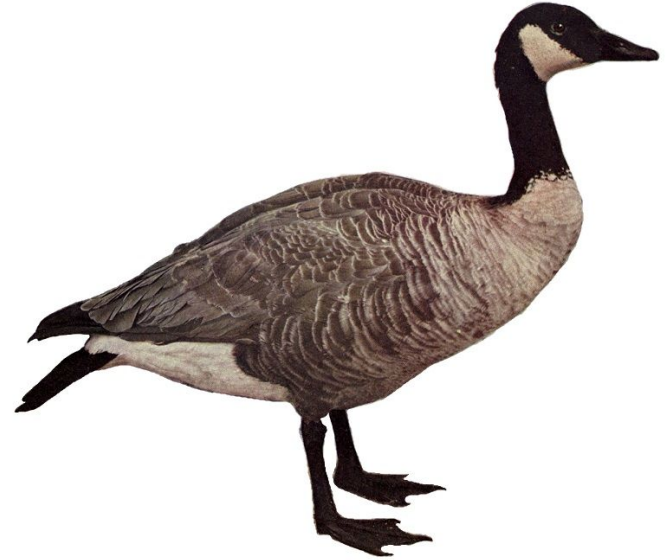
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anserini-docker

- Our IR toolkit built on Lucene, supporting replicable IR research
- BM25 + QL retrieval models
 - RM3 + Axiomatic re-ranking on top of initial results
- Supports all 6 OSIRRC collections



birch-docker

- BERT based document ranking via sentence modeling
- Document ranking based on weighted sum of top 3 most relevant sentences per document
- Models fine-tuned on QA or microblog datasets
 - Image does inference only
- Supports robust04



Experience

What Went Well...	What We Would Have Liked...
<ul style="list-style-type: none">- We primarily designed the jig... developing the images was pretty smooth	<ul style="list-style-type: none">- GPU support (e.g., for BERT fine-tuning)- Support for standardized cross validation- Shared volumes between hooks (e.g., model folder persisted between train and search hooks)

Thanks!