

RND-4: TRADE-OFF ??????????/????????? ? HYPEX MATCHER ??? ?????????? FAISS

????????? ? ??????????

??? matching-????? ? HypEx ???? ???? ????? nearest-neighbor ? ??????? latency ? recall.  
????????? ????? baseline ? ANN-????? ?? ?????????????? ???????????.

????????? ? ????????

? H1: exact-????? ??? ????? recall, ?? ??? latency ?? ?????? N.

? H2: approximate-????? (faiss ??? ??????) ?????? latency ????? ?????????????? ??????  
recall@k.

? H3: ??? ????? N ??????? ?????????? ?? exact numpy baseline.

????????? ? ??? ??????????????

?????????: ?????????? ??? N x D ? ????? ?????? Q x D. ??????:

? recall@k ?????????? exact-?????,

? latency ?? ??? ?????.

???? faiss ??????????, ?????????? graceful fallback: ?????????? exact ?????? ??????  
approximate random-projection shortlist ?? numpy.

?????????

? ?????????? ?????????? bench ? ????? latency vs recall. ?? ?????????? fallback-ANN  
????????? ?????????? trade-off: ?????????? ?? ?????????? ?????????? recall.

????? ? ????????????

? ??? ?????? ?????????? (?? ~50k) ? ?????????? ??????: exact (numpy/faiss Flat).

? ??? ?????????? ??????: ANN ? ?????????? ?????????? ??? ?????? recall.

? ? production ?????? dual-mode: ?????? ANN + ?????????????? exact-????? ???????.

?????

? 'docs/CONTEXT\_TZ.md'

? '01\_bonferroni\_aa\_matching/report.md'