Touch and Explore

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build exploration dbs
get a quick feeling about the data
and focus on interesting areas
big data: big, frequent, various forms
but also not always sure what we are looking for
today

what is an index?

WANTED
Data Scientists

Stratos Idreos (CWI/EPFL, Harvard)

tomorrow
everybody will need to be a “data scientist”

SELECT max(toys) FROM store WHERE mam=won’t yell
easy to use

interactive navigation
a database system allows you to answer queries fast

a data exploration db system allows you to find fast which queries to ask
dbTouch

design db kernels for touch-based exploration
stop chasing pointers, start chasing knowledge

reconsider db kernels

correct vs fast

30% cpu

70% pointer chasing

e.g., hash join

no tuning: cracking (CWI/Google/HP/NUS/Rutgers)
no loading: nodb (EPFL)
rethink dbs for exploration

check out dbTouch, nodb, database cracking

Thanks!