GRADUATE STUDIES

• Another "phase transition"

GRADUATE STUDIES

high school

GRADUATE STUDIES

≡ "STUDY THE UNKNOWN"

VS "STUDY THE KNOWN"

• What unknown should I study?
  - Unknown... (i.e. the specific is...)
  - what you can decide is typically (only) the general area

  - how to decide on an area?

  ? maybe by courses?
THE BIG PICTURE

Computer Science

"THEORY" ← "APPLICATION" (AREAS) and/or "APPLIED CS"

TOC ↔ TOP

• TOC = THEORY OF COMPUTATION
• TOP = THEORY OF PROGRAMMING
Theory of Computation (TOC)

- Algorithms
- Complexity
- Cryptography
- Distributed Computing

- e.g. Approx. Problems
- e.g. Randomness

The bigger picture:

- CS
- Math etc.
- "Theory"
- Applied

TOC ↔ TOP