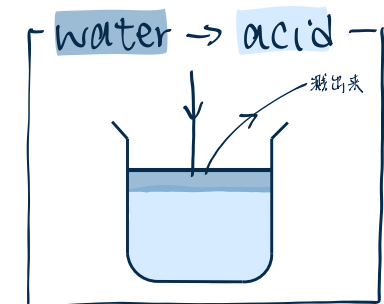


Diluting conc. acids

1 Qualitatively

- pour the acid to distilled water slowly, stir the solution → ↓ temperature
(酸加水, 慢慢嚟, 搞搞震)
- 为何不把水加至 acid 里?
 - ① water is less dense than acid (比较 Mr)
 - + ↳ water floats on top of conc. acid
 - ② process is highly exothermic (= gives out a lot of heat)
 - = ↳ local heating effect
- ⇒ water splashes out w/ conc. acid → highly corrosive



2 Quantitatively

- 参见 Prepare standard solutions — 2. Diluting method