Indirection

> "All problems in computer science can be solved by another level of indirection"

Butler Lampson

in *"fundamental theorem of software engineering"*

Dependencies

- Class (internal, hard)

- Interface (internal, soft)

- Libraries (external, hard/soft)

Class

- "Hard dependency"
- Knows implementation
- Cannot be replaced
- `new()` as indicator

Interface

- "Soft dependency"

- Hides implementation

- Can be replaced

- Subset of functionality [ISP]

Libraries

- "Hard dependency" or "Soft dependency"

- Knows or hides implementation

- Can partially be replaced

- Depending from 3rd party

Freedom is independence

- Reduce (or remove) hard dependencies

- Use interfaces

- Watch your dependencies

- Define your dependencies

Dependencies can be found

- nuget/references

- namespace usings

- constructor

- `new()`

- properties