CONNASCENCE

Categorizing and measuring coupling

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Agenda

- What exactly is connascence?
- Why do we need to know?
- ... Are we flying yet?



Our toolbelt

- Low coupling, high cohesion
- SOLID principles
- Code smells
- Object calisthenics
- And so on...

Connascence

• Noun: The act of growing together

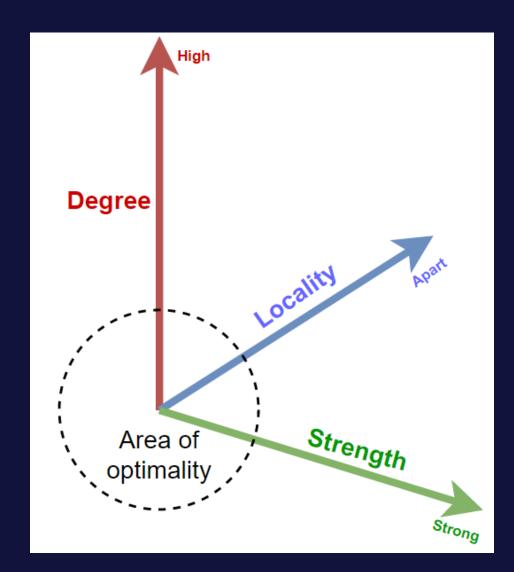
- Jim Weirich
 - Grand unified theory of software development
 - Two pieces of software share *connascence* when a change in one requires a corresponding change in the other

Measuring coupling

 Degree: Amount of entities needed to change

• Locality: How close are the entities

 Strength: Stronger connascence are harder to discover or refactor



Categorizing coupling

- Static vs dynamic
 - Discoverability
- Ordered by strength



https://codesai.com/posts/2017/07/two-examples-of-connascence-of-position

Static connascence

Connascence of name

• Connascence of type

Strength: weak Locality: close Degree: low

Dynamic connascence

Connascence of execution
 order

• Discoverable at runtime

public void ChangeMovieTitle(Guid id, string newTitle)

```
var movie = GetMovie(id);
movie.Title = newTitle;
movie.UpdatedOn = DateTime.Now;
Save(movie);
```

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Why do we need to know?

Vocabulary of different types of coupling

• Software-quality metric

• Know-how to be in the area of optimality

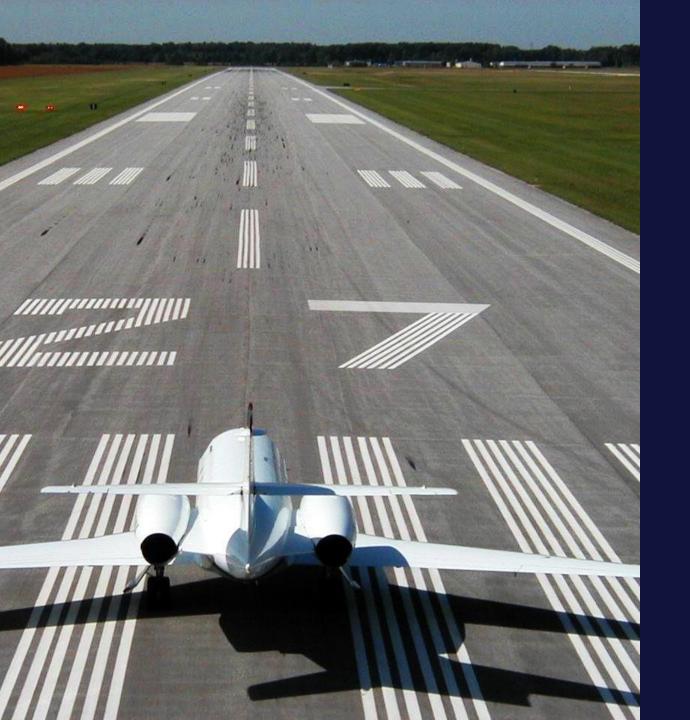
Are we flying yet?

• Test doubles

• Hexagonal architecture

• Acceptance test driven development





Are we flying yet?

- Smoother mob programming
- Concepts are settling in
- Put it into practice
 - And practise!

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Thanks for your attention!

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