Build.WithConfidence();

on API design, fluent interfaces and the builder pattern

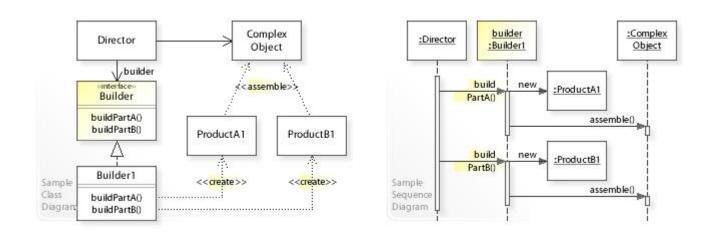
Bernhard Mayr



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- studying **psychology** and **philosophy** a university of innsbruck
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Let's start with some UML...





- .thatWeStop()
- .making(apis && libraries)
- .thatLookLike(this)?.please;

(or am I the only one who doesn't like overused builder patterns?)

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 \Box

 \triangle



un-tree-shakeable



- not needed (TypeScript + JSON)
- high maintenance cost
- finishing problem

better: functional piping; composition; objects; await/yield



In software engineering, a **fluent interface** is an object-oriented API whose design relies extensively on **method chaining**. Its goal is to increase code legibility by creating an [internal] domain-specific language (DSL).



The **builder pattern** is a design pattern [...]. It's intent is to separate the construction of a complex object from its representation.



Fluent interfaces make sense in some APIs, like the QueryBuilder, or in general builder objects, especially when it comes to putting together nodes into a hierarchical structure.

TOC

- autocompletion and static
 types as a navigation system
 (AaSTaaNS)
- How to write a library with
 git in mind?
- -writing code vs. reading code
- Why I am studying
 psychology...
- "Oxford English Dictionary" my new favorite dev tool



Findings (C#)

- Extension Methods
- `using static ...`
- Composition
- -utilize Properties
- -.Build()
- Indexed Builder
- Skipping (inheritance)
- -DSL as Extension



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https://github.com/bemayr/Statecharts.NET/