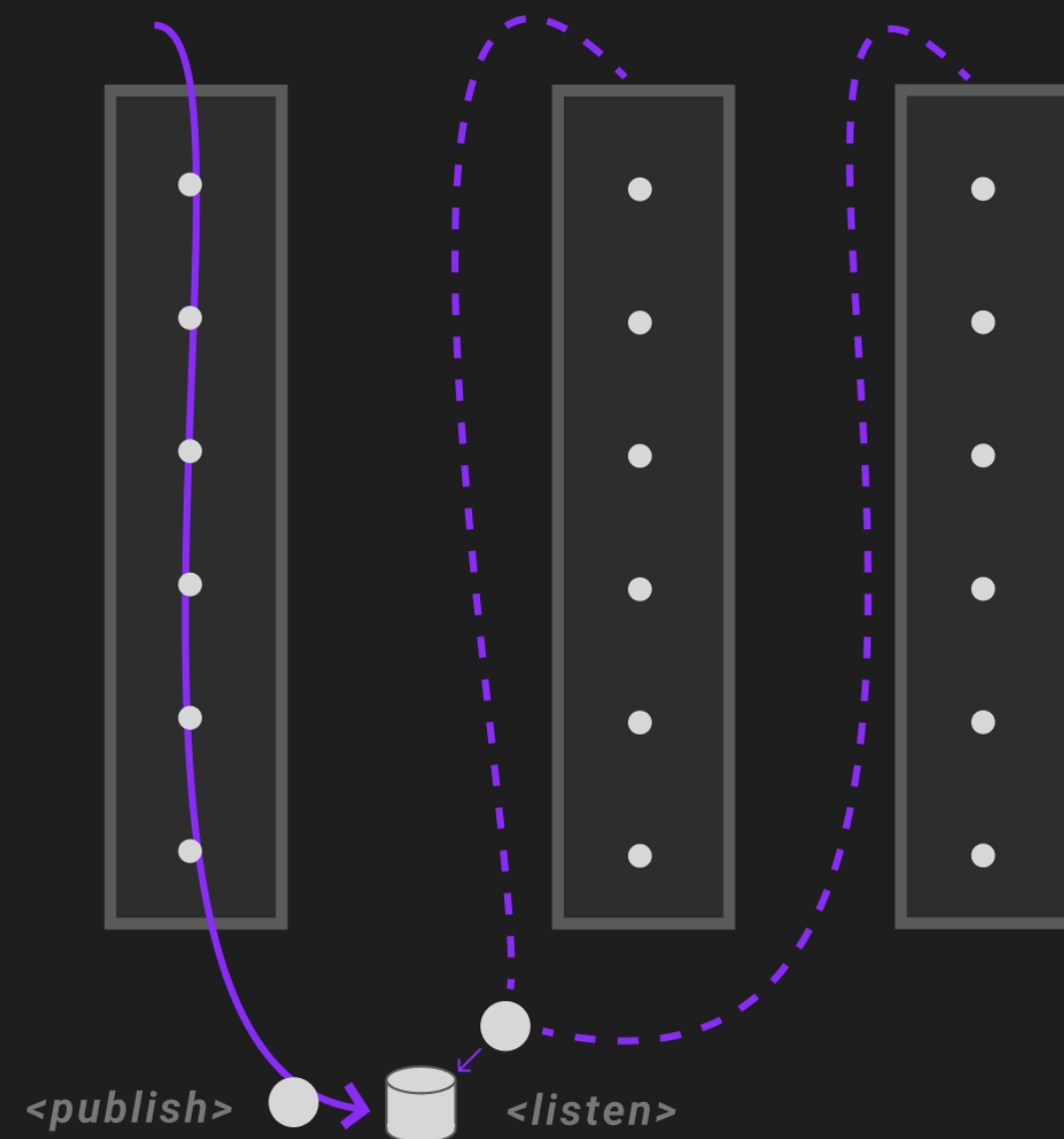




Physical Essential: Temporal Decoupling



Physical Essential

Temporal Decoupling

Requirements are temporal.

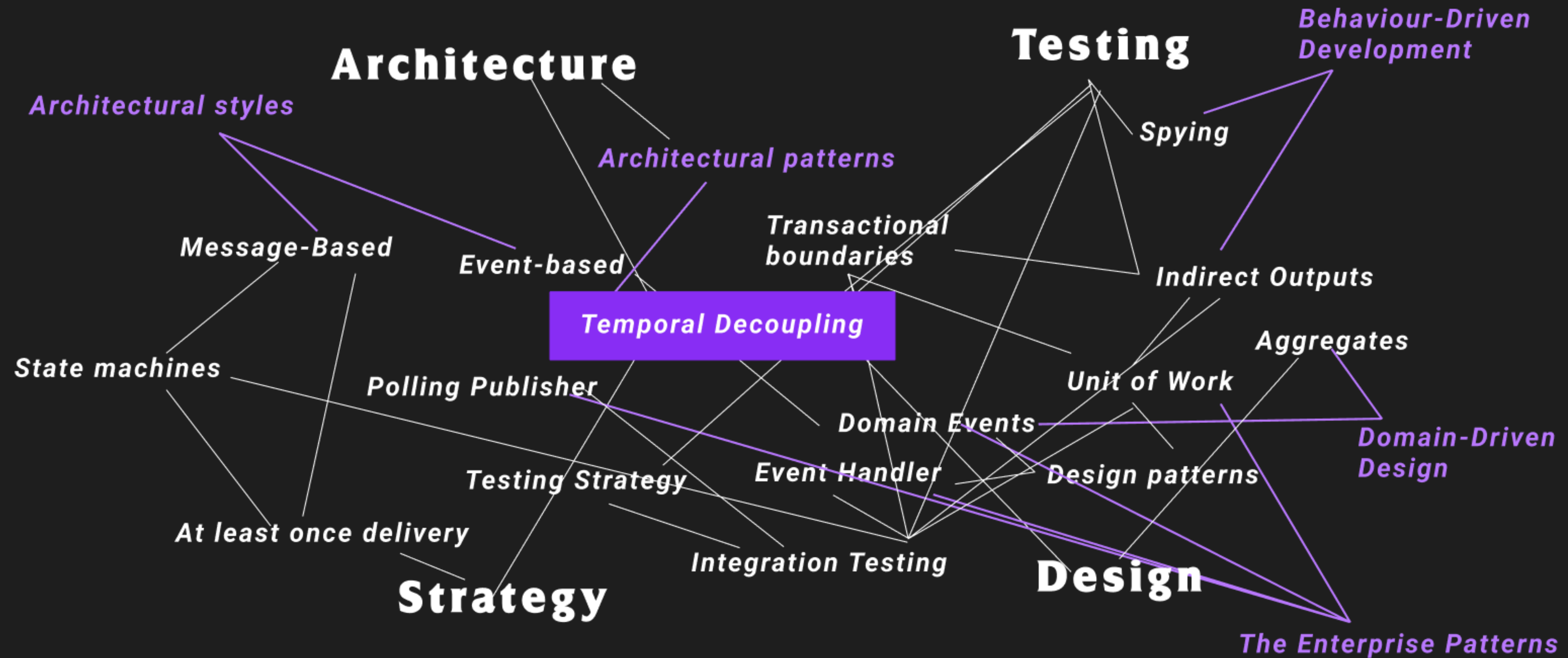
*There's always an element of *time* involved.*

They always seem to come in the form of "after this", "before that", or "only when this happens".

Instead of trying to slot new operations inside of, before, or after existing ones - coupling them together, we use Temporal Decoupling: decouple using events.

By publishing & subscribing to events, we can chain features & operations, chaining functionality in a scalable way over time.

```
1  async function afterJobPosted (jobId: number) {
2    if (isProd) {
3      await notificationsService.sendNotification();
4    }
5    await emailService.sendJobPostedEmail(jobId);
6    await billingService.billCustomerByJobId(jobId);
7    // ..
8    // .. and more
9    // .. and more and more
10 }
```



from the theoretical

Incoming Adapter

Can the system be reached? Do the correct operations get called when a request is made?

Acceptance Test

Executable Specification

Protocol Driver

System API Contract

The Physical Guess Points

The “How”

System (E2E)

Does the system do what the customer asked for? Does the entirety of the system work together? Do all the architectural components work together?

Features

Stories

Acceptance Criteria

Examples

Application

Do the internals of the system do the right things when we perform scenarios and edge cases? Are internals being called properly? Does the app call the right external services and attempt to save at the right times?

Features

Stories

Acceptance Criteria

Examples

Stateful (Domain Modelling)

...

Are we accurately modelling the business logic and the heart of the domain?
Does the application enforce business rules?

Outgoing Adapter

...

Stateless

Do my functions work correctly?

...

...

Can I reach the external services? Do they work the way I intend? Am I properly integrated with them? Do they persist data properly?

Deployment & Delivery

Can I deploy to production? Does my deployment pipeline mitigate negative value? Does it enforce a code standard?

...

...

Execution

Are users using the feature? Are they using it the way we intended?

...

...