Before starting a Project:

- 1 Consider using proxy entities
 - Lower memory footprint
 - No detect changes
 - Don't use AutoMappers
- 2 Disable lazy loading
 - This pattern is unhealthy
- 3 Define your performance goals

During your everyday coding:

- 1 Enumerate early Enumerate deliberately
- **2** Test performance goals
- **3** Only optimise if you don't reach your goals
- 4 Use .AsNoTracking for read-only data
- **5** Keep the scope of your context small
 - RequestScope is good
 - SingletonScope is bad

When you are not meeting your performance goals:

- 1 Profile your queries (EF profiler)
- 2 Enumerate in the correct places
- 3 Simplify your queries
- 4 Let EF track fewer items at once

If you need to squeeze every last drop of performance:

- 1 Consider caching data for read
- 2 Use update without selects

```
using (var context = new MyContext())
{
    var dummy = new Test{Id= 1};
    context.Tests.Attach(dummy);
    dummy.Something = "Hello World";
    context.SaveChanges();
}
```

If Snapshot Tracking with many tracked entities consider disabling
AutoDetectChanges

This will have some negative impacts:

- Fixups won't be applied
- You will need to manually call Detect changes before saving