

Naming



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Agenda



Why is naming critical?

Names to avoid

Avoiding side-effects

Selecting good variable names

A vertical stack of several books of varying thicknesses and colors (blue, red, white) is shown on the left side of the image. The books are slightly out of focus, with the top ones being sharper.

Could You Read This Book?

P was very angry with G for insulting her
M. G kicked P in the A. He slept on the C.



Naming Matters



```
List<decimal> p = new List<decimal>() {5.50m, 1.48m};  
decimal t = 0;  
foreach(var i in p)  
{  
    t += i;  
}  
return t;
```



```
List<decimal> prices = new List<decimal>() {5.50m, 1.48m};  
decimal total = 0;  
foreach(var price in prices)  
{  
    total += price;  
}  
return total;
```

Class Naming Guidelines

Noun

Be specific

Single
Responsibility

Avoid generic
suffixes



Naming Classes



WebsiteBO

Utility

Common

MyFunctions

JimmysUtils

*Manager / *Processor/*Info



User

Account

QueryBuilder

ProductRepository

Specific names encourage small, cohesive classes



The Method Name Says It All



Go

Complete

Get

Process

Dolt

Start

On_Init, Page_Load, etc.



GetRegisteredUsers

IsValidSubmission

ImportDocument

SendEmail



Need a hand?



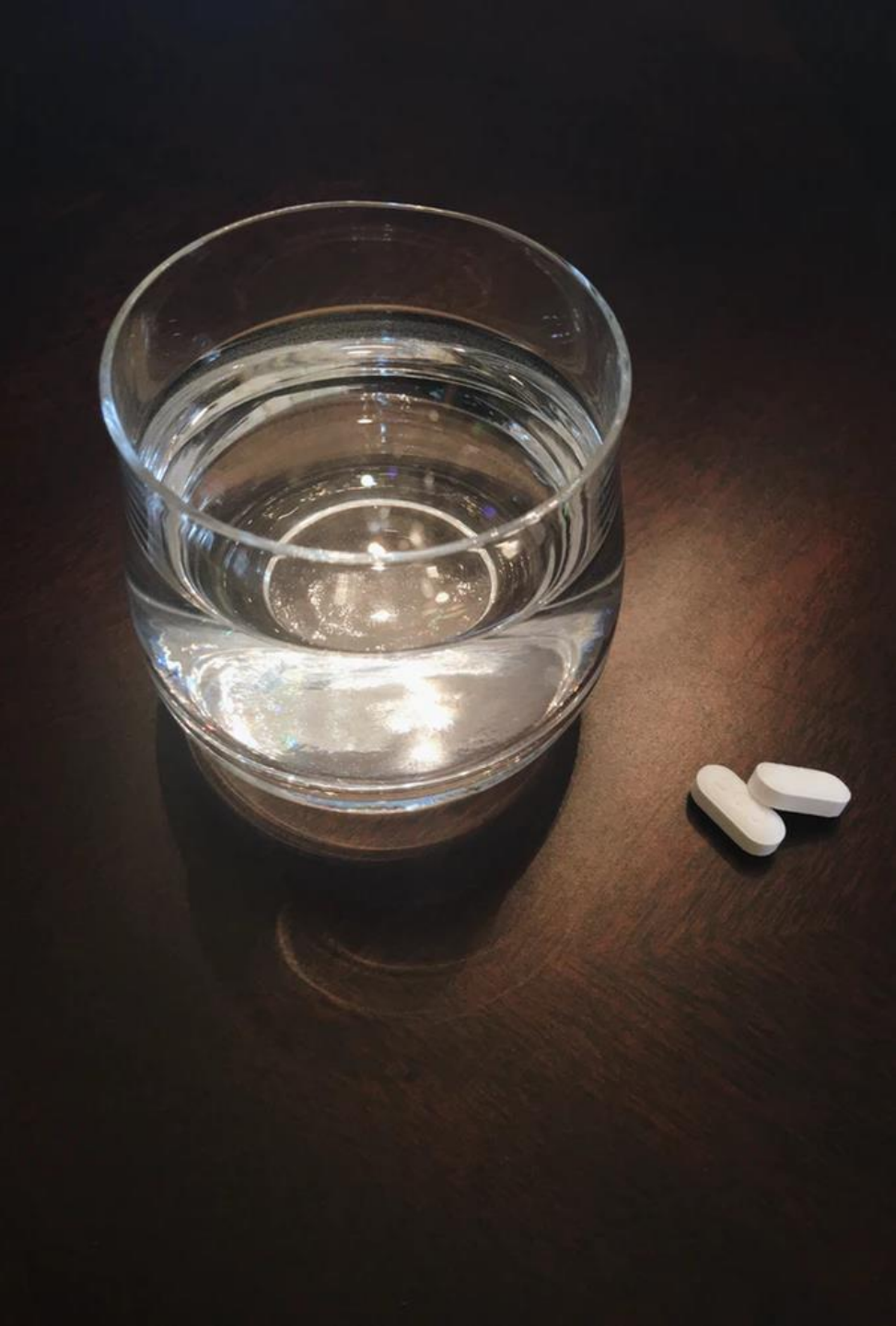
Avoid Side Effects

CheckPassword shouldn't log users out.

ValidateSubmission shouldn't save.

GetUser shouldn't create their session.

ChargeCreditCard shouldn't send emails.



Naming Warning Signs

And

If

Or



Avoid Abbreviations

It's not the 80's

No standard

We talk about code

RegUsr

RegistUser

RegisUser

RegisterUser



Naming Variables: Booleans



open

start

status

login

```
if (login)
{

}
```



isOpen

done

isActive

loggedIn

```
if (loggedIn)
{

}
```



Naming Variables: Be Symmetrical



on/disable

quick/slow

lock/open

slow/max



on/off

fast/slow

lock/unlock

min/max

Summary



The name should say it all

Use specific class names

Watch for function side-effects

Avoid abbreviations

Booleans should sound true / false

Strive for symmetry

Verbalize when struggling

Next up: Conditionals

