# 2.3 Method Naming Conventions

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# Overview

The following coding standards were collected from various technologies, frameworks and articles that form a collection of best practices for method names and what the purpose and/or implementation is expected.

Each of the identifiers presented by this convention form clauses used in whole or as part of an identifier. For example, 'as' can be used a a stand alone function call or part of a method name:

```
// Method that converts parameter and returns integer
Integer i = r.as(Integer.class);

// Method that returns a value of a integer type.
Integer i = r.asInteger();
```

# Glossary Of Identifiers

#### As

Return a representation of an instance as a different type.

This clause identifies a method that converts the object to a different type.

## Example

```
var exam1 = Mabye.of(userRepo.findUserById(userId));
var user = exam1.as(UserDetail.class).getName(); // Cast exam1 to a
UserDetail and get the users name.
var str = userId.asString() // Return id value as a string.
```

#### Find

Return a subset of items matching criteria.

Method searches a collection or database for a specific instance(s) of a item.

The return type should be a Collection, Maybe or Optional.

The find clause should follow the Spring Data naming convention. See Spring Data.

#### Example

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List findAll()	Return all instance of User
Optional findUserById(Long id)	Find a specific user with the given id
List findUserLikeLastName(String name)	Find all users with last name like name
List findLiserByLastNameAndFirstName( )	Find all users with last name and first name

#### From

Method that accept a reference to an Object as a parameter and returns a class with a value extracted from object.

#### Example

```
var comp = Maybe.from(anOptional); // Creates a Maybe instance from the
value of Optional.
```

### Get

Getter method to retrieve the value of a property.

The implementation of a getter should be simple and short; preferably written to qualify for Method Inlining in the JVM.

#### Of

Method that accepts a reference to an Object as a parameter and returns a wrapper class for the Object.

#### Example

```
var response = Maybe.of(resp); // Creates a Maybe instance containing
the value of resp.
```

#### When

If the predicate is true then return the reference to this, otherwise, return a default instance.

Bisects method chaining depending on the result of a Predicate lambda function.

The return value will be one of two possible values depending on the *truth* returned by the Predicate. The when clause is frequently coupled with the *then* clause.

#### Example

```
var someInt = Maybe.of(50); // Create a Maybe<Integer> with the value 50 var result1 = someInt.when(p -> p > 25).then(p -> p * 10); // result1 will be 500
```

var result2 = someInt.when(p -> p <=25).then(p -> p / 10); // result1 will be None<Integer>

# With

The *with* clause is used to make a call to a lambda that is a {@link Consumer} instance that will receive an instance of an object that the lambda function is expected to build. If the method name is *with* as a stand alone function then the object passed is usually the instance of the parent class.

This clause forms the DSL semantics is "with(x) do (y)".

### Via

The *via* clause is used to make a call to a lambda that is a {@link Consumer} instance that will receive an instance of the object.