

The COS Faker

Article

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The COS Faker

Hi Community,

This post is to introduce one of my first project in COS, I created when started to learn the language and until today I'm keeping improve it.

The [CosFaker\(here on Github\)](#) is a pure COS library for generating fake data.

cosFaker vs Populate Utils

So why use cosFaker if caché has the populate data utility?

Ok the populate utility has great things, like the SSN Generator for example, but what to do when you have a field with a long description of a product? How to check if that table will list the emails or if that calculated property will count the days of the last user interaction.

For me cosFaker is a populate utils with steroids! You can use together with the Populate, to generate %Stream or long strings, or random Dates.

e.g.

```
Class Sample.Product Extends (%Persistent, %Populate, %XML.Adaptor)
{
    Property Type As %String;
    Property Notes As %String(MAXLEN = 250, MINLEN = 10);
    Property Name As %String;
    Property Origin As %String;
    Property LastInteraction As %TimeStamp;

    Method OnPopulate() As %Status [ ServerOnly = 1 ]
    {
        Set tSC = $$$OK
        Try {
            Set ..Type = "Coffee"
            Set ..Name = ##class(cosFaker.Coffee).BlendName()
            Set ..LastInteraction = ##class(cosFaker.Dates).Backward($Random(80))
            Set ..Notes = ##class(cosFaker.Coffee).Notes()
            Set ..Origin = ##class(cosFaker.Coffee).Origin()
        } Catch tException {
            Set:$$$ISOK(tSC) tSC = tException.AsStatus()
        }
        Quit tSC
    }
}
```

```
Do ##class(Sample.Product).Populate(10)
```

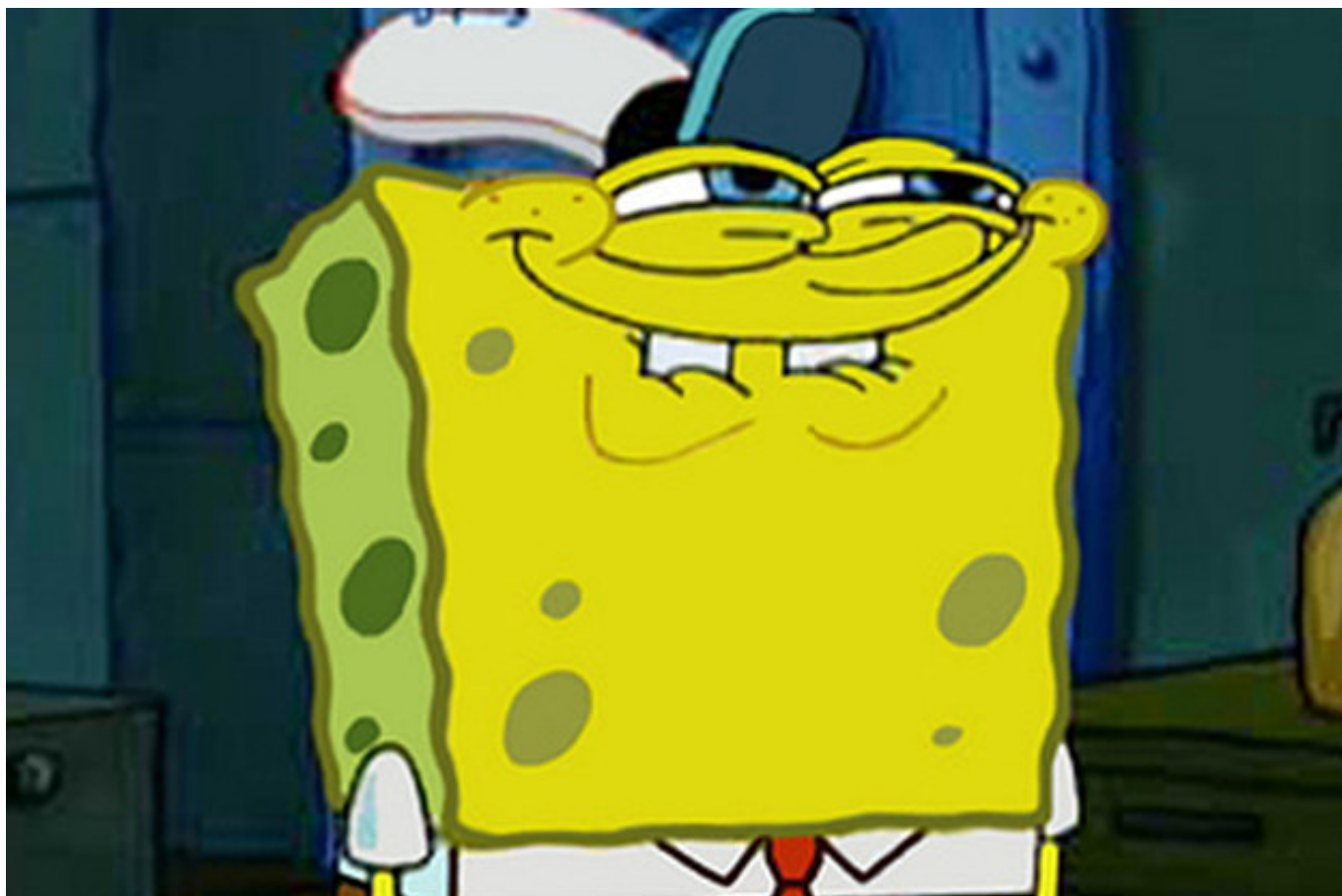
ID	LastInteraction	Name	Notes	Origin	Type
1	2017-04-24 00:00:00	Melty Mug	soft, round, cherry, tomato, cranberry	Kibale, Uganda	Coffee
2	2017-05-08 00:00:00	Seattle	juicy, coating, clove, bittersweet chocolate, passion fruit	Kayanza, Burundi	Coffee
3	2017-03-31 00:00:00	Blue Extract	tart, tea-like, maple syrup, honey, blueberry	Kabirizi, Rwanda	Coffee
4	2017-03-21 00:00:00	Melty Star	dense, full, olive, green pepper, mandarin	Northern Region, Arusha, Tanzania	Coffee
5	2017-05-13 00:00:00	Summer Star	pointed, watery, soy sauce, passion fruit, marshmallow	Kabirizi, Rwanda	Coffee
6	2017-05-13 00:00:00	Winter	vibrant, full, mushroom, white pepper, mandarin	Kayanza, Burundi	Coffee
7	2017-04-16 00:00:00	Blue Equinox	faint, syrupy, black-tea, marshmallow, molasses	Sul Minas, Brazil	Coffee
8	2017-05-08 00:00:00	Thanksgiving Equinox	sharp, velvety, carbon, red currant, lemon verbena	Harrar, Ethiopia	Coffee
9	2017-05-01 00:00:00	Cascara Equinox	astringent, smooth, burnt sugar, mango, golden raisin	Jalisco, Mexico	Coffee
10	2017-04-07 00:00:00	Hello Solstice	quick, velvety, tamarind, almond, graham cracker	Nueva Segovia, Nicaragua	Coffee

And it's great to write unit tests like that:

```
Method TestPersonLogin() As SampleProject.DataModel.Person
{
    Set person = ##class(Sample.DataModel.Person).%New()
    Set person.FirstName = ##class(cosFaker.Name).FirstName()
    Set person.LastName = ##class(cosFaker.Name).LastName()
    Set person.Email = ##class(cosFaker.Internet).Email(person.FirstName, person.
LastName)
    Do $$$AssertStatusOK(person.%Save())

    Set matcher=##class(%Regex.Matcher).%New("\A([\w+\-].?)+@[a-z\d\-\-]+(\.[a-z]+)*\.[a-
z]+\z")
    Set matcher.Text = person.Email
    Do $$$AssertTrue(matcher.Locate())
    Do $$$AssertEquals(person, ##class(Sample.DataModel.Person).%OpenId(person.%Id()))
}
```

cosFaker is FUN!!



Yes, cosFaker is fun... Instead of names like "Gibbs, Zoe K.", you have "Goku" or "Piccolo" using `##class(cosFaker.DragonBall).Character()`

And a lot of funny stuffs like Pokemon Name Generator, Star Wars Planets or Droids, Coffee, UFC Fighters Names, Lorem Ipsum, etc...

So, That's all folks

Cheers

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