



ApptiveGrid

**Solve problems without
programming**

Thanks FAST for inviting me !!

Norbert Hartl

1995 Heard about smalltalk first time

2003 did some music/art installations using squeak

2005 started using squeak professionally

2008 moved to pharo on its very first day

2010 first ESUG in Barcelona

2019 organizer of ESUG in cologne

Created and maintained libraries/frameworks like Mustache,
JsonWebToken, Voyage, ASN.1, ...

Welcome to
the guided tour

We will explore the
why, what and how
of ApptiveGrid



there is a world that is non-technical

You are
here



future



Our customers
are here

You are
here



future



software-business relationship?

- Engaged
- Divorced
- ☒ **It's Complicated**
- Separated
- In a Relationship

It's complicated because...

- ... *software is expensive*

It's complicated because...

- ... *software is expensive*
- ... *takes quite some time*

It's complicated because...

- ... *software is expensive*
- ... *takes quite some time*
- ... *easy things are hard*

It's complicated because...

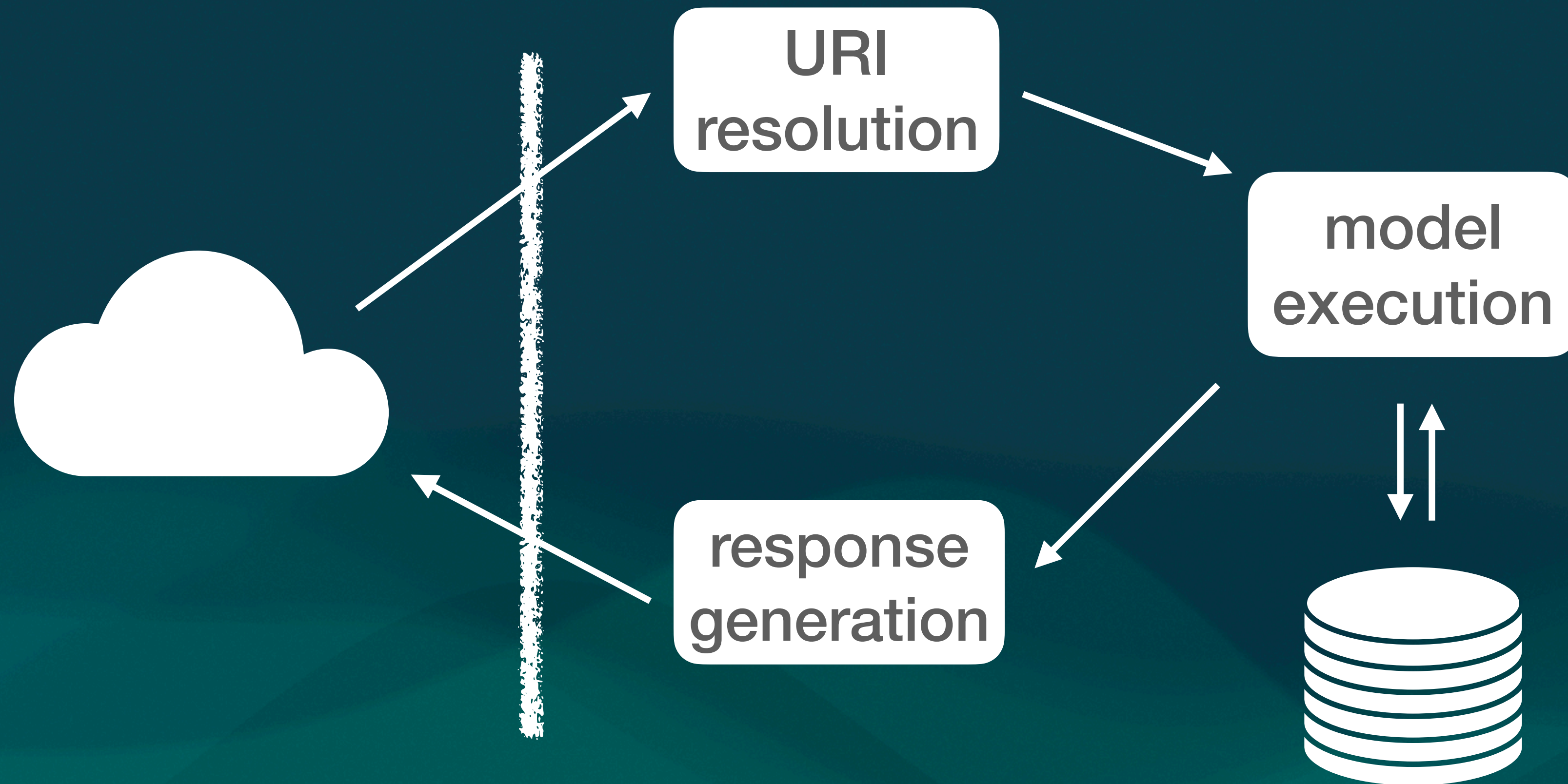
- ... *software is expensive*
- ... *takes quite some time*
- ... *easy things are hard*
- ... *hard things are impossible*

A "simple" project

Model



A Service



Deployment



Demo

tries to be

ApptiveGrid ~~is~~ a hyper application

A URL is a reference+

0xDEADBEEF

<http://heap.io/objects/deadbeef>

A URI+verb is an operation

GET http://heap.io/objects/deadbeef --> ReadObject

PUT http://heap.io/objects/deadbeef --> WriteObject

DELETE http://heap.io/objects/deadbeef --> RemoveObject

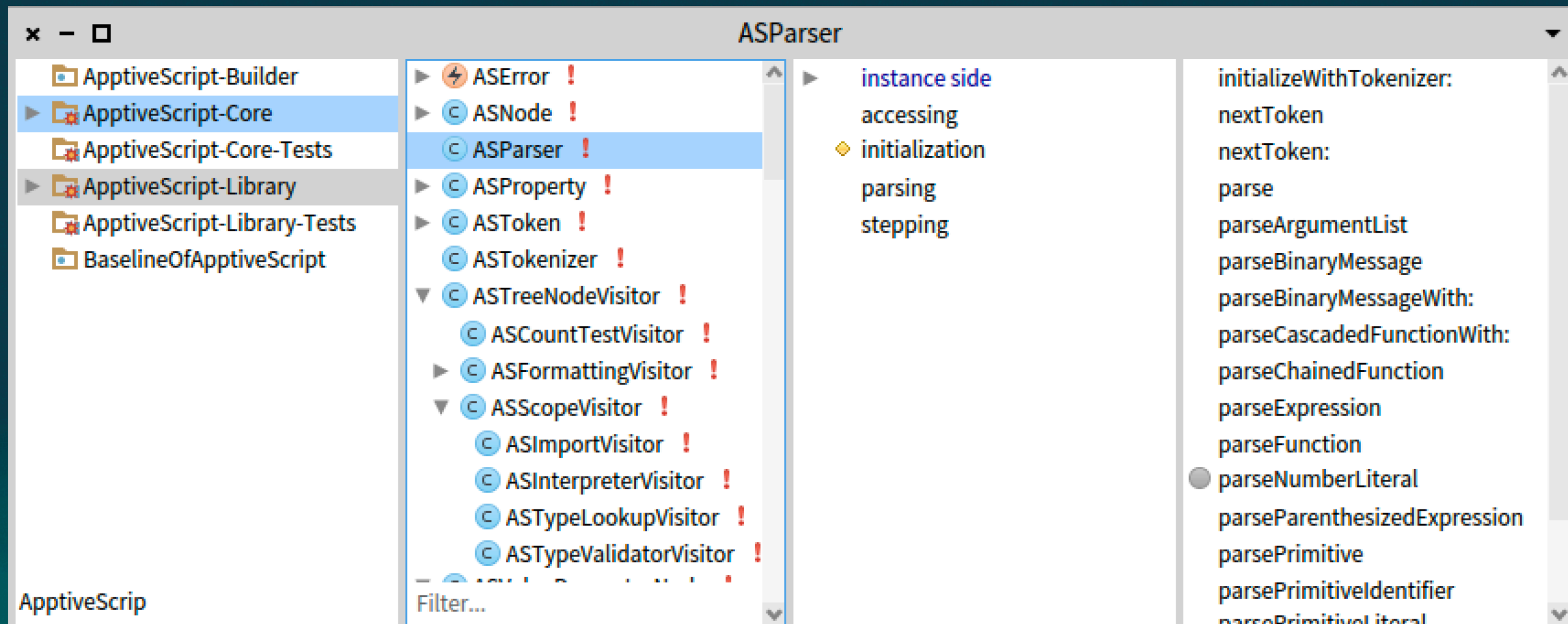
HAL format


```
{
  "type": "space",
  "id": "672b97b322c6301687e27cdb",
  "name": "Smalltalks 2024",
  "_links": {
    "self": {
      "href": "/api/users/64074500c689b71134b2b18b/spaces/672b97b322c6301687e27cdb",
      "method": "get"
    },
    "patch": {
      "href": "/api/users/64074500c689b71134b2b18b/spaces/672b97b322c6301687e27cdb",
      "method": "patch"
    },
  },
  "_embedded": {
    "grids": [
      {
        "key": null,
        "id": "672b981b22c630e8dde27cdd",
        "name": "Issues",
        "_links": {
          "self": {
            "href": "/api/users/64074500c689b71134b2b18b/spaces/672b97b322c6301687e27cdb/grids/672b981b22c630e8dde27cdd",
            "method": "get"
          }
        }
      }
    ],
  },
}
```


HAL format

- enables referencing without URL semantics
- self links keep identity
- allows embedding for keeping latency low
- we hook security onto it

ApptiveScript



ApptiveScript

```
step('64ee0ddae4743dbe24c06aee').output.get('data').get('state').isEqualTo('done')
```

application

node

user

type

Stateless API

[http://apptivegrid.de/api/users/64074500c689b71134b2b18b/
spaces/672b97b322c6301687e27cdb](http://apptivegrid.de/api/users/64074500c689b71134b2b18b/spaces/672b97b322c6301687e27cdb)

object oriented databas

We use Soil. I will talk about that tomorrow!

thank you!

Questions?



ApptiveGrid

Norbert Hartl

norbert@apptivegrid.de