Sisyphus Inspiration
Tests should be independent from each other

Full test suite should run as quickly as I want

Maintaining tests should be easy and cheap

Tests should be stable, robust and [here your next lovely buzzword]

… and it would be really better if we wouldn’t require them at all!
“A dream you dream alone is only a dream.
A dream you dream together is reality.”

John Lennon
Reality

Extremely Extensible Core

Continuously Changing Business

Modular Platform

Multi
- Language
- Theme
- Website
- Tenant
Dreams

```php
$superF = new SuperFramework();
$superF->Ineed('result');
$superF->toGo('start');
$superF->andClick('whatever');
$superF->andDo('something');
$superF->andClick('done');
$superF->andGet('success');
```
More **DECLARATIVE**

Top Layer
- BDD
- Code Generators

Mid Layer
- Framework

Low Layer
- PHPUnit
- Selenium

More **IMPERATIVE**
MTF Components

Test Cases
(Pre-conditions, Scenario, Constraints)

Fixtures
(and Repositories)

Tools and Utils

Page Objects
(Pages, Blocks, Elements)

Direct Access Handlers

System Under Test

Selenium Driver

Test Cases
(Pre-conditions, Scenario, Constraints)
/**
 * Run create product test
 */

public function testCreate(CatalogProductSimple $product, CatalogCategory $category)
{
    $this->productGridPage->open();
    $this->productGridPage->getProductBlock()->addProduct($product->getTypeId());
    $productBlockForm = $this->newProductPage->getForm();
    $productBlockForm->fillProduct($product, $category);
    $this->newProductPage->getFormAction()->save();
}
namespace Magento\Mtf\Test\Page\Area;
use Mtf\Page\Page;

class TestPage extends Page
{
    const MCA = 'testPage';

    protected $_blocks = [
        'rootBlock' => [
            'name' => 'rootBlock',
            'class' => 'Magento\Mtf\Test\Block\RootBlock',
            'locator' => 'body',
            'strategy' => 'tag selector'
        ]
    ];

    public function getRootBlock()
    {
        return $this->getBlockInstance('rootBlock');
    }
}
namespace Magento\Mtf\Test\Constraint;
use Mtf\Constraint\AbstractConstraint;
use Magento\Mtf\Test\Page\Area\TestPage;
use Magento\Mtf\Test\Fixture\Test;

class PageOpenSuccess extends AbstractConstraint
{
    protected $severeness = 'low';

    public function processAssert(TestPage $page, Test $fixture)
    {
        //
    }

    public function toString()
    {
        //
    }
}
namespace Magento\Mtf\Test\Fixture;
use Mtf\Fixture\InjectableFixture;

class Test extends InjectableFixture
{
    protected $fieldName = [
        'attribute_code' => 'code',
        'frontend_input' => 'input_type',
        'frontend_label' => 'Label'
    ];

    public function getFieldName()
    {
        return $this->getData('fieldName');
    }
}
Repositories

```php
namespace Magento\Mtf\Test\Repository;

use Mtf\Repository\AbstractRepository;

class TestRepository extends AbstractRepository {

    public function __construct()
    {
        $this->_data['identifier_value_1'] = [...];
        $this->_data['didentifier_value_2'] = [...];
    }
}
```
Feature #17

Application Status Iterator

Test Cases Iterator

Constraints

Test Case Scenario

Dataset #1

Dataset #2

Dataset #3

Dataset #4

Dataset #n

Configuration Profile #1

Configuration Profile #2

Configuration Profile #3

Configuration Profile #4

Configuration Profile #n
good things

- Parallel Execution
- Test Isolation Levels
- Test Runners and Iterators
- Event Manager
- Logging and Reporting
- Sample Database Management Tool
“I dream my painting and I paint my dream.”

Vincent van Gogh
Magento Testing Framework

The testing framework that does speak Magentish
Magento Testing Framework

Q&A
Q&A
Q&A

magento/mtf
magento/magento2

Developer's Guide / Testing
Magento Testing Framework Guidelines