"Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live."

JOHN WOODS.

RiverGlide
flow without friction

@riverglide

@andypalmer

@antonymarcano

@jmrtn

@pro_cessor


Ruperto Carola

MANAGERBROKERDISPATCHER
INTERFACEIMPL

http://www.classnamer.com/

CheckedGraphContext

Stateles

ErrorCorrectingMessageGeneratorsRecordGenerator

CLEAN CODE *

*The book!

Use

INTENTIONREVEALING

Names

ABSICHTSVERMITTELNDE

Vermeide

DESINFORMATION

Erzeuge

AUSSAGEKRÄFTIGE

Unterschiede

Verwende

SUCHBARE

Namen

Verwende

AUSSPRECHBARE

Namen

private Date
genymdhms

private Date generationTimestamp

```
/// <summary>
///         Gets or sets.
///         Used for Ewiomc.
/// </summary>
/// <remarks>
///         Used internally by the bl.
/// </remarks>
public string Vdewgvgwid { get; set; }
```

WTF? Ich geh heim.

Aussage

KLASSENNAMEN

kräftig

“CLASSES AND OBJECTS SHOULD HAVE NOUN OR NOUN PHRASE NAMES LIKE CUSTOMER, WIKIPAGE, ACCOUNT, AND ADDRESSPARSER. AVOID WORDS LIKE MANAGER, PROCESSOR,, DATA, OR INFO IN THE NAME OF A CLASS. A CLASS NAME SHOULD NOT BE A VERB.”

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WARUM?

Kenne

DEINEN FEIND

Und respektiere ihn.

WEASEL WORDS

“I can suck melancholy out of a song, as a weazel sucks eggs."

SHAKESPEARE, AS YOU LIKE IT, II. 5..

Klassifikation

TAXONOMIE

Ordnung


Hungarian
Party Hats
Philo sophers

DOUBLE INT

LONG STRING

```
pWindow

cCustomers
```

```
[DllImport("user32.dll")]
static extern bool CloseWindow(IntPtr hWnd);
```

```
[DllImport("user32.dll", SetLastError=true)]
static extern IntPtr CreateWindowEx(
WindowStylesEx dwExStyle,
string lpClassName,
string lpWindowName,
WindowStyles dwStyle,
int x,
int y,
int nWidth,
int nHeight,
IntPtr hWndParent,
IntPtr hMenu,
IntPtr hInstance,
IntPtr lpParam);
```

dafuq did i just read

```
public int SumIntegersUpTo(int bound)
{
    return Enumerable.Range(1, bound).Sum();
}
```

```
private readonly ICanStartAndStop _counter;
private readonly Wristwatch _wristwatch;
private Brush _color;
private double _fontSize;
private bool _isRunning = false;
private TimeSpan _timeLeft;
```


Hungarian
Party Hats
Philo sophers

```
for(int i = 0; i < customers.Count; i++) {

        Customer theCustomer = customers[i];

        ...
}
```

```
foreach(var customer in customers) {

        ...
}
```

Hilfsmittel zur

MEHRFACHEN

Vergabe des selben Namens

MY

THE

AN


IT


Hungarian
Party Hats
Philo sophers

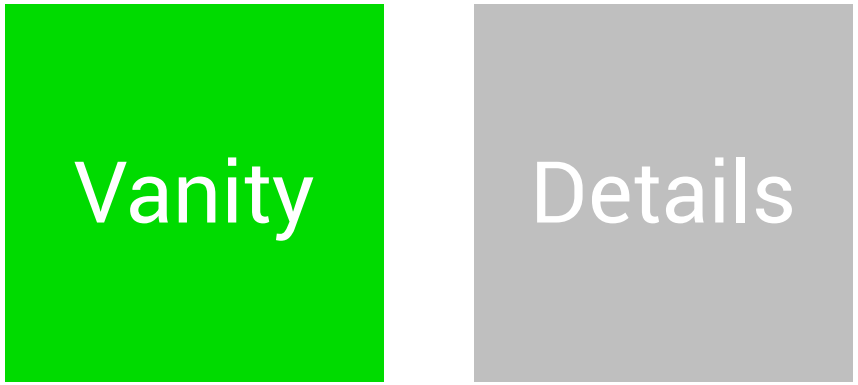
DATA

INFO

FUNCTION

PROCESS

SYSTEM MODEL


Vanity
Details

Eitle Wichtigtuer

IMPORTANCE

Aufgeblasen!

FLEXIBLE

GENERAL

EXTENDED

SUPER

ABSTRACT

```
public abstract class AbstractTopLevelItem
extends AbstractItem
implements TopLevelItem {

        // ...
}
```

Die Schönheit liegt

SIMPLICITY

im Auge des Betrachters

BASIC

EASY

NEW

SPECIAL

SIMPLE


Vanity
Details

Mit Förmchen spielen...

SHAPE

Details

LIST

QUERY

ARRAY

DICTIONARY

VIEW

Benimm dich!

BEHAVIORAL

Details

DYNAMIC

LAZY

LOCAL

CONSTANT

GLOBAL

Klappts?

TEST

Details

MOCK

STUB

FAKE

DYNAMICMOCK

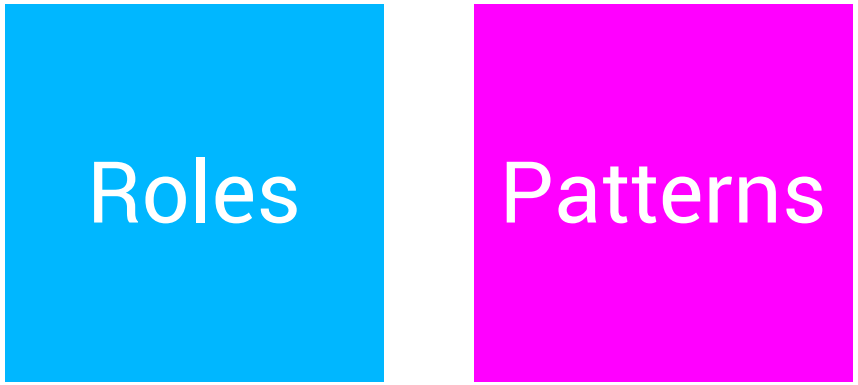
STRICKTMOCK

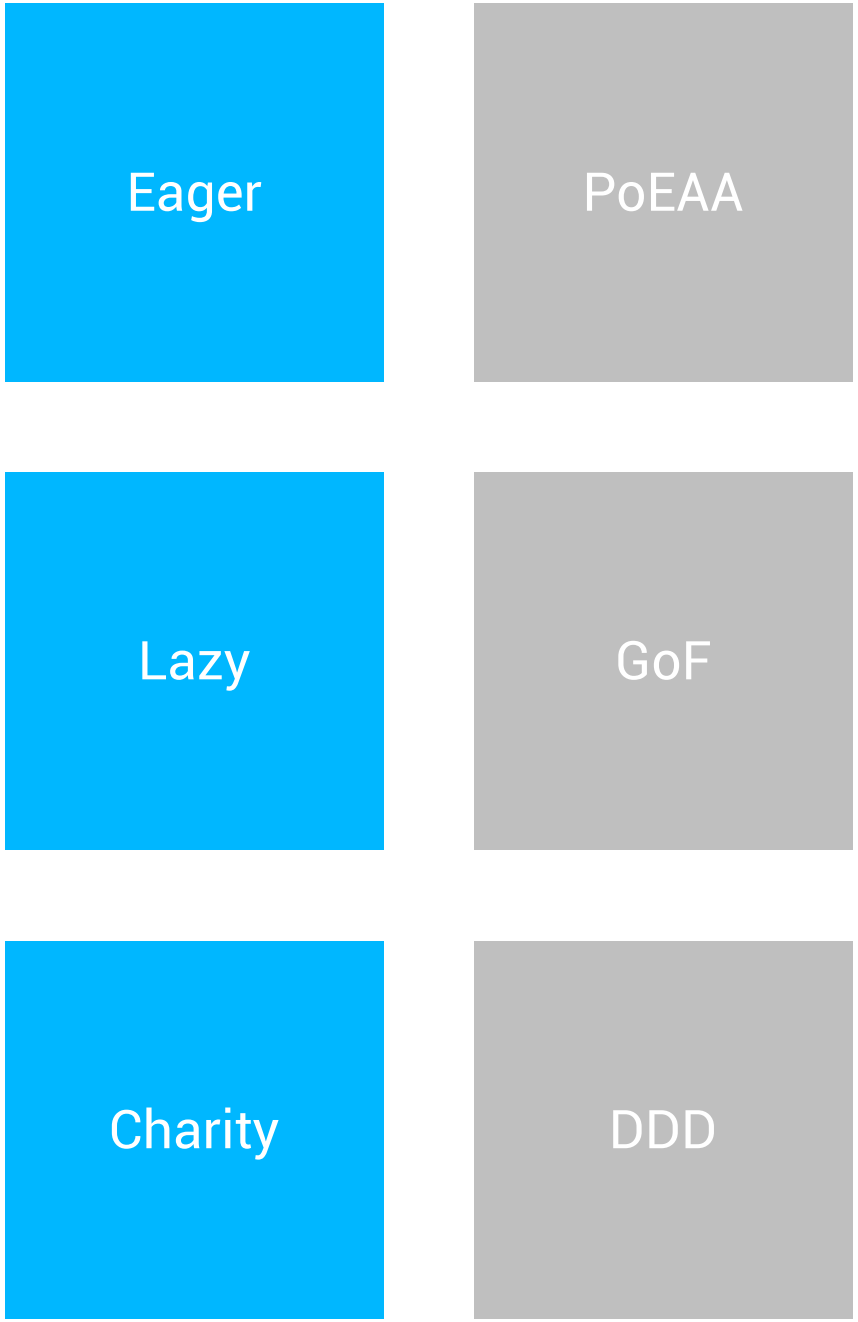
MOCKS

Sind keine Stubs.

```
var stubUserRepository =
    MockRepository.GenerateStub<IUserRepository>();


stubUserRepository.Stub(x =>
    x.GetUserByName("ayende")).Return(theUser);
```


Roles
Patterns


Eager
PoEAA
Lazy
GoF
Charity
DDD

Übereifrig

EAGER ROLES

Tausendsassa

PROVIDER

AGENT

DISPATCHER

BROKER

MANAGER

PROZEDURALER CODE
GROSSE KLASSEN

SCHWER TESTBAR

1000+LOC

JENKINS

https://github.com/jenkinsci/jenkins/blob/master/core/src/main/java/jenkins/model/Jenkins.java

Faulpelze

LAZY ROLES

Nicht meine Aufgabe!

NOMINA AGENTIS

Von einem Verb abgeleitetes Substantiv

DERIVATIONSMORPHEME

-ER

-OR

FORMATTER

TRANSFORMER

WRAPPER

MAPPER

VALIDATOR

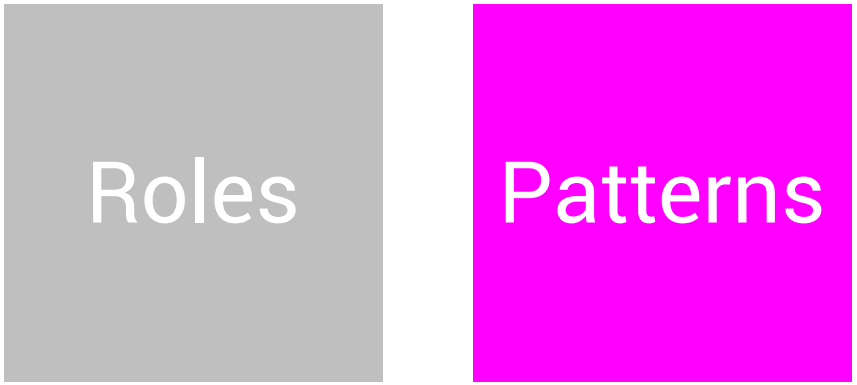
CHARITY

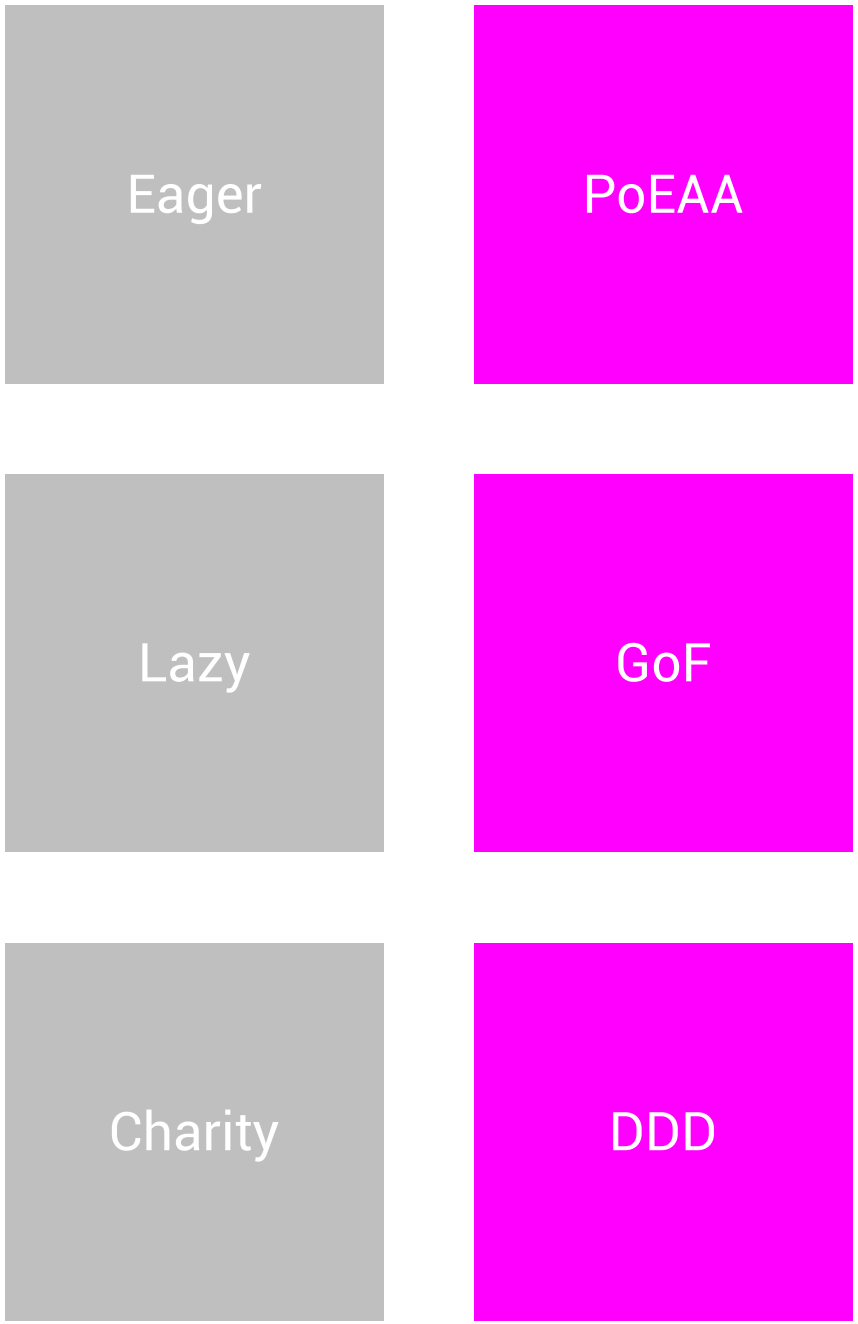
UTILS

HELPER

“We are blind to the
World within us,
Waiting to be born"

AT THE GATES
BLINDED BY FEAR


Roles
Patterns


Eager
PoEAA
Lazy
GoF
Charity
DDD

Design Patterns

ENTWURFSMUSTER

Sind keine Lösung

BUILDER

FACADE

STRATEGY

DECORATOR

SINGLETON

```
var instance = ConnectionSingleton.Instance;
```

```
public static DatabaseConnectionSingleton GetInstance()
{
    return _instance
        ?? (_instance = new DatabaseConnectionSingleton());
}
```

NEW, DELETE?

KANN DAS NICHT DIE RUNTIME MACHEN?

```
var instance = Only.One<DatabaseConnection>();
```

```
var instance = The.Same<DatabaseConnection>();
```

```
var instance = Unity.Resolve<DatabaseConnection>();
```

```
var instance = ObjectFucktory.GetInstance<DatabaseConnection>();
```

FACTORY

“Du willst doch nicht in einer Pizzafabrik essen, sondern in einem Restaurant”

ROBERTO BEZ.
SONNTAG ABEND

RATHER THAN “A GENERAL REUSABLE SOLUTION TO A COMMONLY OCCURRING PROBLEM”, I CURRENTLY THINK OF DESIGN PATTERNS AS A SHARED VOCABULARY FOR DISCUSSING THE OBSERVABLE COMMONALITIES BETWEEN TWO OR MORE SOLUTIONS, AFTER THEY’VE EMERGED.

RATHER THAN **“A GENERAL REUSABLE SOLUTION TO A COMMONLY OCCURRING PROBLEM”**, I CURRENTLY THINK OF DESIGN PATTERNS AS A SHARED VOCABULARY FOR DISCUSSING THE OBSERVABLE COMMONALITIES BETWEEN TWO OR MORE SOLUTIONS, AFTER THEY’VE EMERGED.

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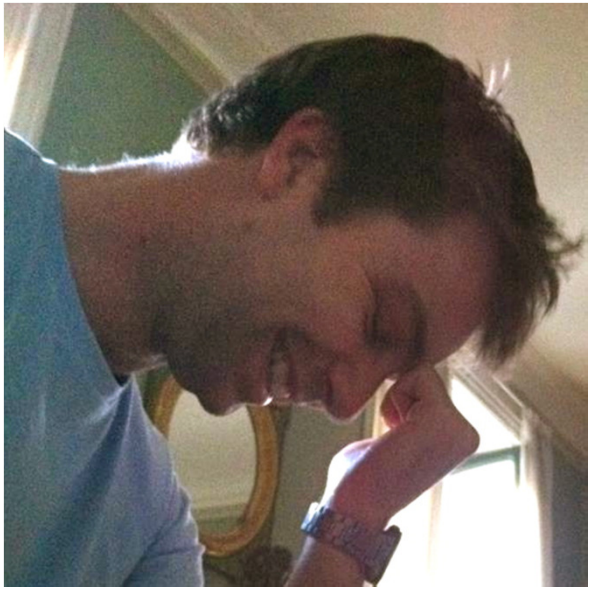


https://twitter.com/#!/jmrtn

http://jmrtn.com/notes/2012/02/17/design-patterns.html

Weg Damit!

SEEK & DESTROY

Wiesel Jagd

Refactoring

RENAME CLASS

Umbenennen

“There are many powerful refactorings, but Rename Class is the most powerful. It changes the way people see code and lets them notice possibilities that they might not have considered before"

MICHAEL FEATHERS.

REPOSITORY

```
public class CustomerRepository
{
    IEnumerable<Customer>
    GetCustomersByYearOfBirth(DateTime yearOfBirth)
    {

    }
}
```

```
public class CustomerRepository
{
    IEnumerable<Customer>
    GetByYearOfBirth(DateTime yearOfBirth)
    {

    }
}
```

```
public class Customers
{
    IEnumerable<Customer>
    GetByYearOfBirth(DateTime yearOfBirth)
    {

    }
}
```

```
public class Customers
{
    IEnumerable<Customer>
    BornIn(DateTime yearOfBirth)
    {

    }
}
```

```
public interface ICustomerRepository
{
        IEnumerable <Customer> BornIn(DateTime yearOfBirth);
}

public class Customers : ICustomerRepository
{
        /*…*/
}
```

```
public class Customers : ICustomerRepository
{
        /*…*/
}
```

```
public interface IFindCustomers
{
     IEnumerable <Customer> BornIn(DateTime yearOfBirth);
}
```

```
public interface IFindCustomers
{
     IEnumerable <Customer> BornIn(DateTime year);
}
```

Iformatter

IFormat

IObserver

IObserve

INTERFACES
DEFINIEREN VERHALTEN.

WARUM NENNEN WIR SIE NICHT
SO?

I DO SOMETHING FOR YOU

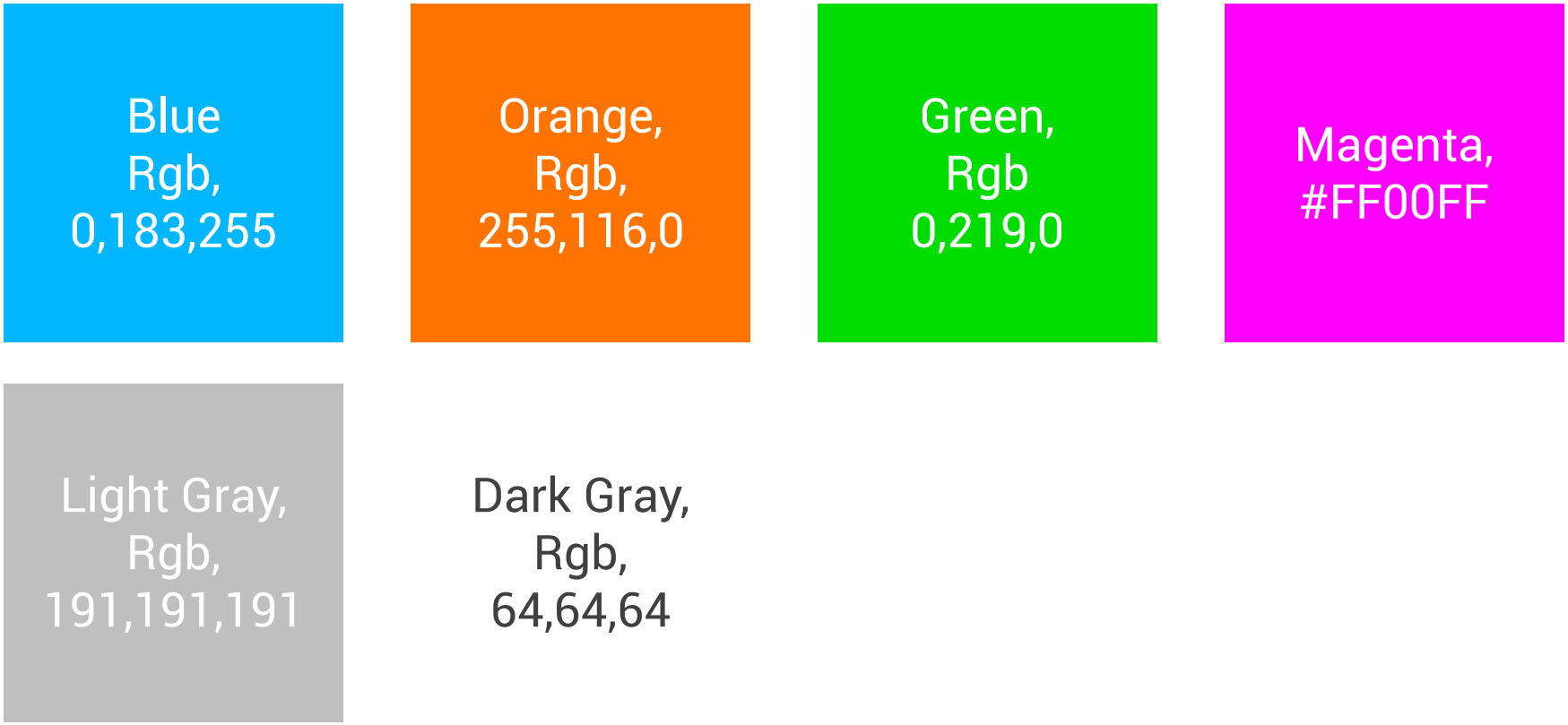
SYSTEMISCHE METAPHER

KLARE NAMEN

Inspired by and using the fonts suggested at
http://www.labnol.org/software/tutorials/advice-select-best-fonts-for-powerpoint-presentation-slides/3355/

Health
http://thenounproject.com/noun/first-aid/#icon-No2208

Andy Palmer on Singletons
http://andypalmer.com/2008/05/singletons/


Blue
Rgb,
0,183,255
Orange,
Rgb,
255,116,0
Green,
Rgb
0,219,0
Magenta,
#FF00FF
Light Gray,
Rgb,
191,191,191
Dark Gray,
Rgb,
64,64,64