SMA:
Software Modeling and Analysis

Practical Session
Week 02
You have to attend the discussion to reveal such slides.*

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*Disclaimer:
The content that has been shown on this slide is irrelevant for the exam.
Assignment 02

Preview
A02 - Exercise 01

Nature of Smalltalk and GT

a) Which threat arises when you develop in a live system?

b) What is a message in Smalltalk?

c) What is a block in Smalltalk?

d) How do Smalltalk, Pharo and GT relate to each other?

e) What are counterparts of GT tools in your favorite development environment?
A02 - Exercise 02

Object inspection

a) What is the difference between a String and a Symbol in Smalltalk? Why is it important?

b) Implement provided pseudo code in Smalltalk.

```smalltalk
int scoreOfPlayerA, scoreOfPlayerB;
if(scoreOfPlayerA > scoreOfPlayerB)
  print "Player A Won"
else if(scoreOfPlayerA < scoreOfPlayerB)
  print "Player B Won";
else
  print "Match is declared as draw";
```
A02 - Exercise 02

c)  *includes: anObject*

How many classes in GT implement the message above?
How many messages in GT use that particular message?

d)  Which message in GT can be sent to a class to find all its subclasses?
Exercise 03

CallGraph

Find the top ten most frequently invoked methods in the provided CallGraph representation.

1) You have to download the Git repo containing the CallGraph implementation:
Metacello new baseline: 'SMAForGt';
repository: 'github://onierstrasz/sma-examples/src'; load.

2) Download Calls.txt and move it into your GT image folder.

3) You’ll find examples in the “CallGraph Demo” slides.