Workshop Testen Stenden Emmen

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Management consultant
Quality & testing

SOGETILABS
FELLOW

TEST NET
Chairman

ISTQB
Workgroup
-member

2007 2008 2009 2012 2012 2014

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@rikmarselis

Rik Marselis

Welkom

Agenda

- **Intro – wat is testen?**
- **Workshop deel 1: test het driehoek-programma (hele groep)**
- **Workshop deel 2: test het OV-programma (deelgroepen)**
- **Workshop deel 3: test de Robot (deelgroepen)**

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Wat is testen?

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What is testing?

To make clear what tradional IT-work often turns out to be I use this flow:

Then stakeholders ask: “What’s that fixing phase?”
And I answer: “We already know were going to make many faults so that’s where we’ll fix them”
To which stakeholders cry: “Then don’t make these faults !!!!”

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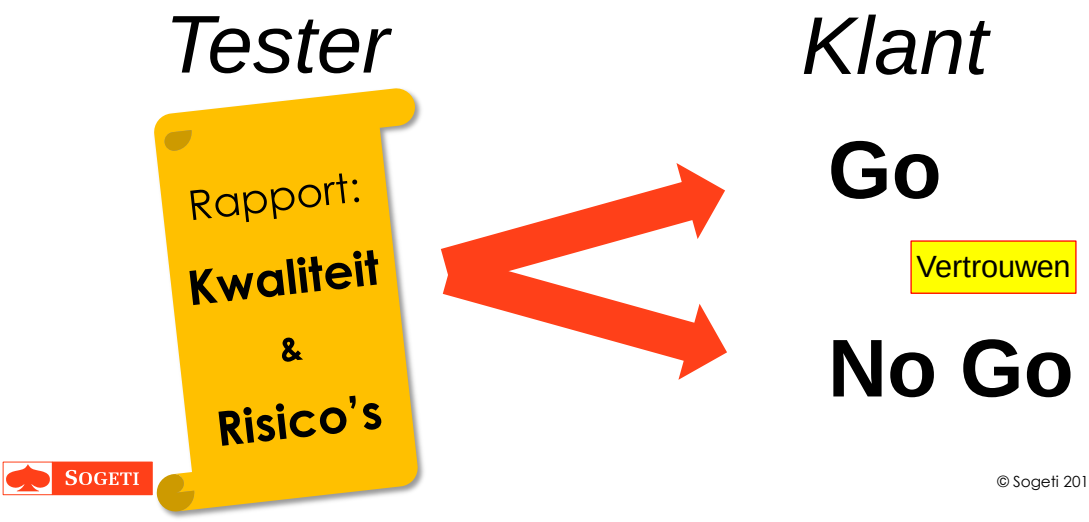
Wat levert testen op?



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Het doel van testen: meten kwaliteit en risico's

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Discussie…

Wie doet welk testwerk?

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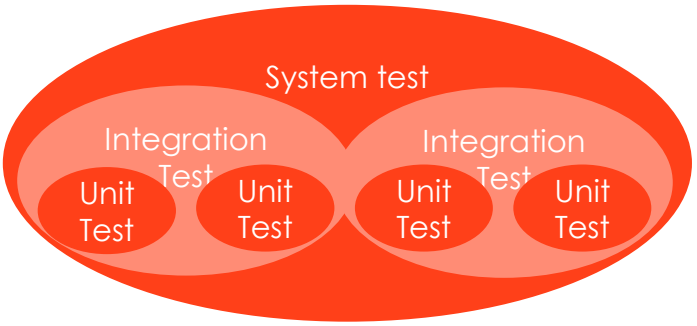
Scope of testing: Unit -, Integration -, System -

Focus on smaller or larger parts of the test object (= system under test)



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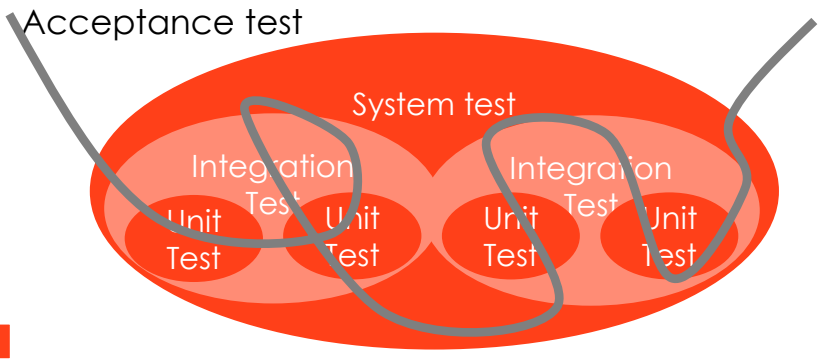
Scope of testing: Acceptance

Focus on the use of the system, based on the business process (without reference to various parts of the system).



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Test het driehoekprogramma

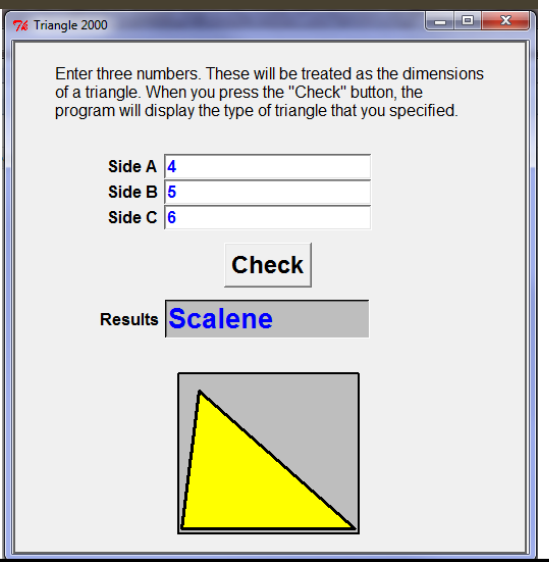
Wat zou je willen testen?

Waarom?

Wat verwacht je als resultaat?

Wat gebeurt er werkelijk?

Wat vind je daarvan?



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Generieke Test Activiteiten

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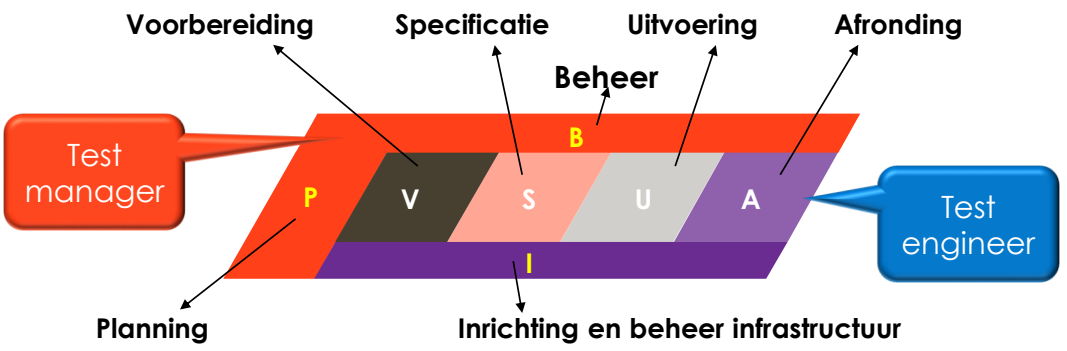
Activiteiten van de tester



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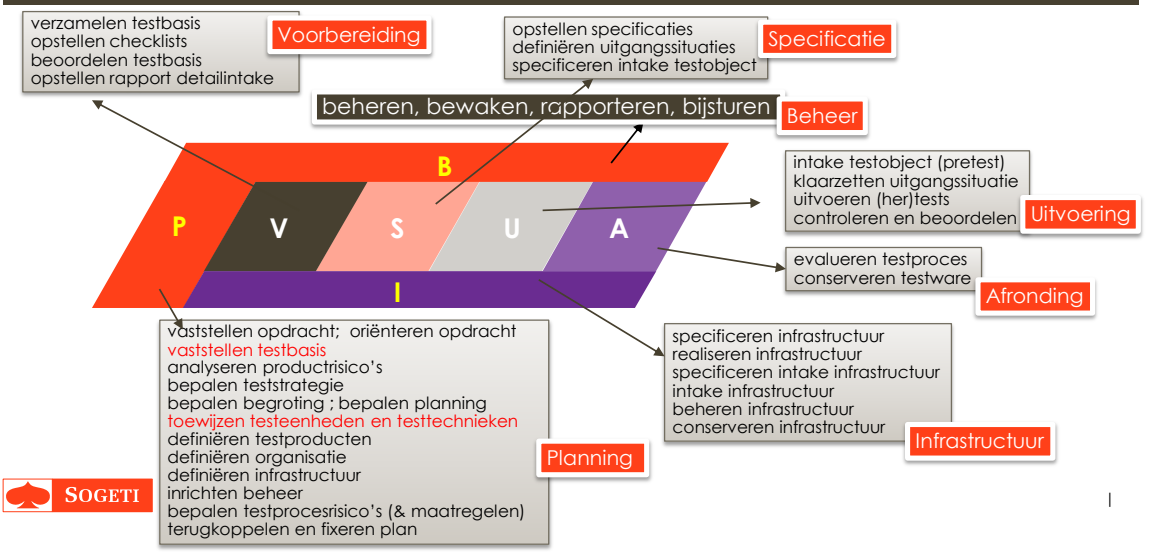
Faseringsmodel met activiteiten



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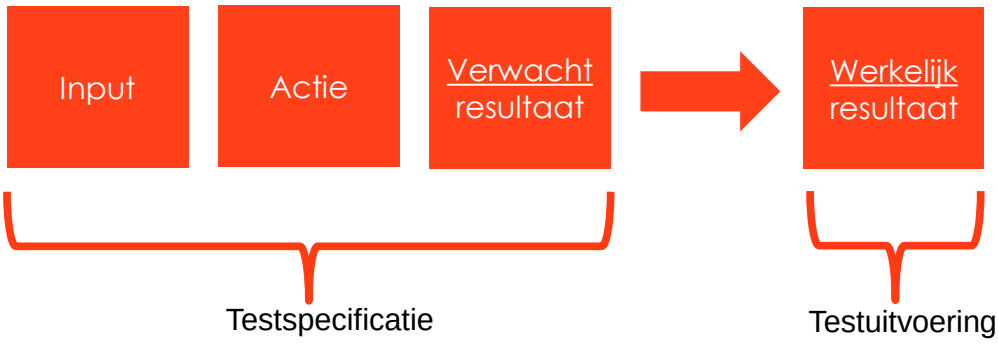
Een testgeval bestaat uit:



Wat is het meest belangrijke onderdeel hiervan???

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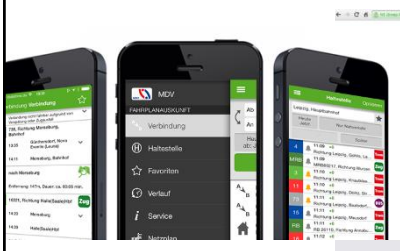
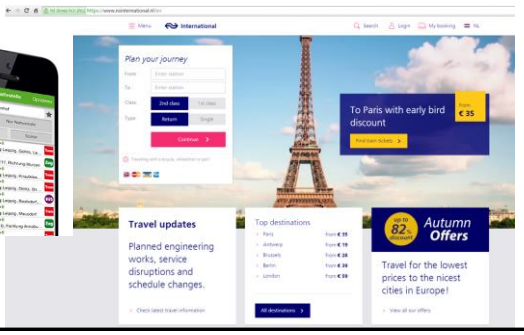
De case: bereken het juiste OV-tarief

Er is een rekenmodule die bepaalt hoeveel korting je krijgt bij reizen in het OV.
De rekenmodule wordt aangeroepen vanuit diverse user-interfaces.





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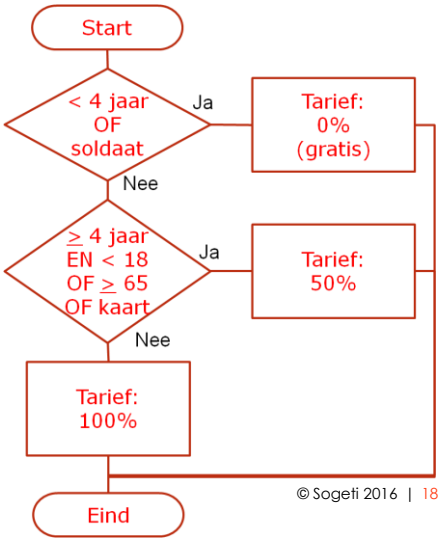
OV-tarief: hoe gaan we dit testen?



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Workshop: zelf aan de slag

Download het OV-programma van www.marselis.eu
(de bovenste download-link)

Begin met de testgevallen die we net samen hebben bedacht.
Bedenk in tweetallen testgevallen
Schrijf ze op, op het log-formulier
Voer het testgeval uit
Vergelijk de werkelijke output met de verwachte output

15 minuten.

Daarna gezamenlijk de resultaten bespreken.

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Approaches

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Test approaches van TMap HD

Experience based

Coverage based

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Experience based approaches in TMap HD

Experience based

1. **Checklist**
   Used for static & dynamic testing
2. **Error guessing**
   Based on previously encountered defects
3. **Exploratory testing**
   Learn, design and execute in parallel

Experience brought together ☺

Largely intuitive & ad hoc ☹

Structured, chartered ☺

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4 groepen dekkingsgebaseerd testen

Better know & use one technique of each group

than all techniques of only one group

Coverage based

1. **Process**
   e.g. Proces Cycle Test
2. **Conditions**
   e.g. Elementary Comparison Test of Decision table
3. **Data**
   e.g. Data Combination Test
4. **Appearance**
   e.g. Syntactic or using user profile

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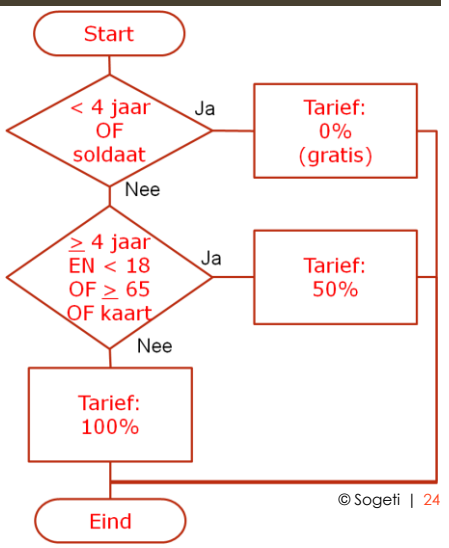
Voorbeeld Testontwerptechniek

Grenswaardenanalyse



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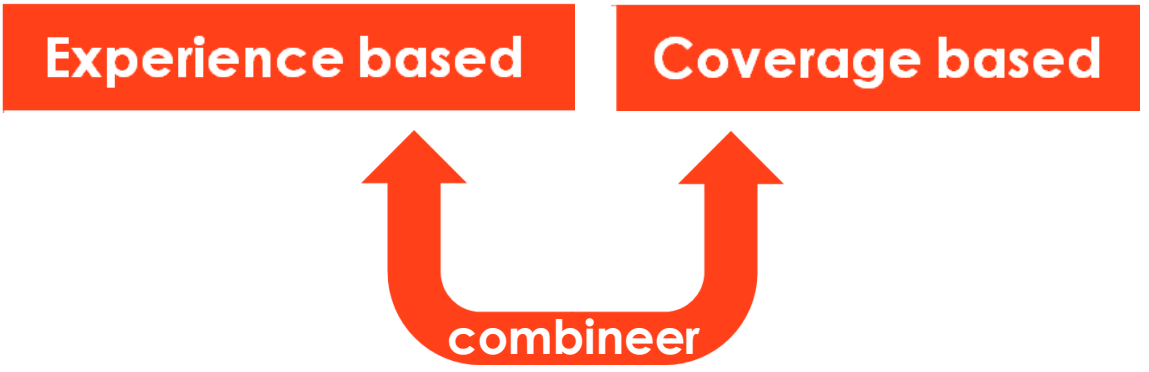
Combineer de beide approaches altijd !!



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Exploratory testing

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Exploration is a feedback loop

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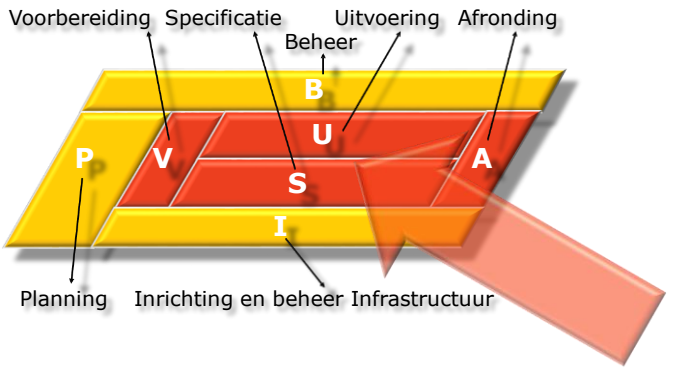
TMap NEXT activiteiten bij Exploratory Testing



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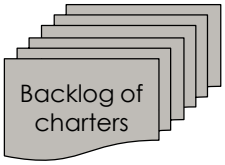
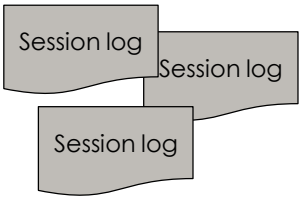
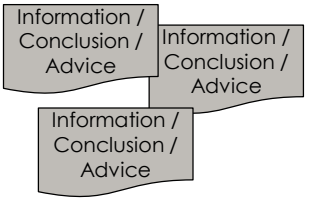
Organize with charters: 3 major activities







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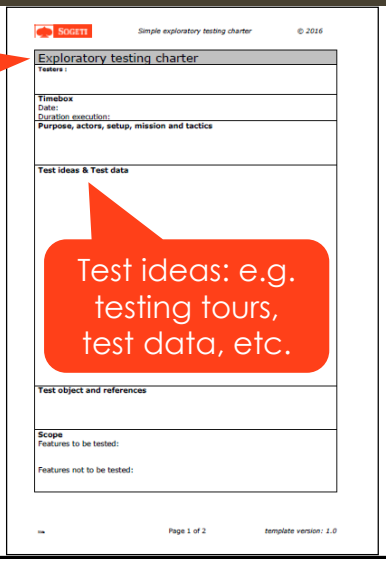
Exploratory testing charter voorbeeld

Charter



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Exploratory testing charter

Testers :

Timebox
Date:
Duration execution:

Purpose, actors, setup, mission and tactics

Test ideas & Test data

Test object and references

Scope
Features to be tested:

Features not to be tested:

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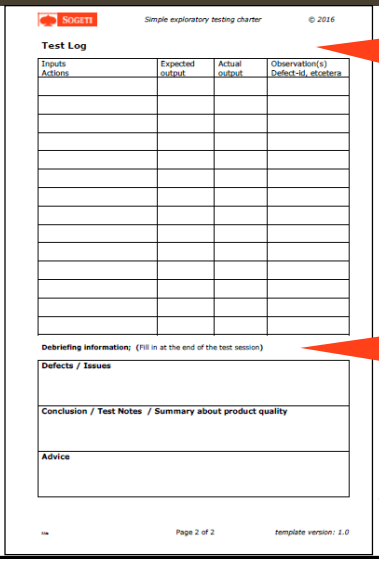
Test ideas: e.g. testing tours, test data, etc.



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Test Log

Inputs Actions	Expected output	Actual output	Observation(s) Defect-id, etcetera

Debriefing information; (Fill in at the end of the test session)

Defects / Issues

Conclusion / Test Notes / Summary about product quality

Advice

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Log

De-briefing

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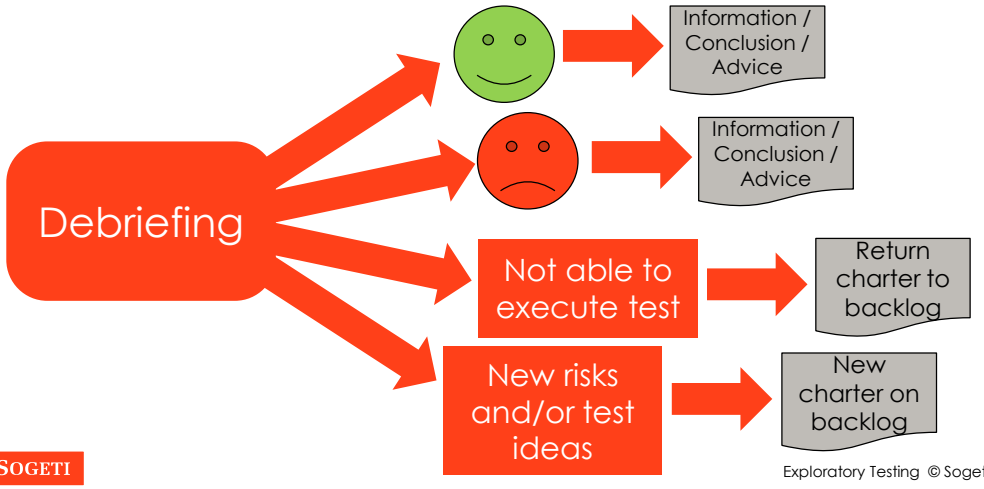
Possible debriefing outcomes



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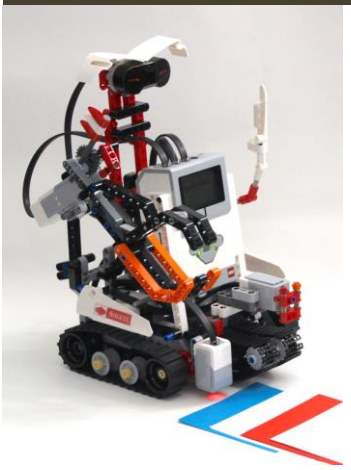
Introducing the color-recognizing robot



R0B3 is a robot with a color-scanner.

Every run it scans 3 times.
The first scan determines the face of the robot:
- **black ➔ loving eyes**
- **white ➔ winking eyes**

The second and third scan determine its reaction:
- **blue is dissappointing**
- **green is better**
- **yellow is much better**
- **red is the R0B3's favorite**

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User-stories for color-recognizing robot

- **As a robot I scan 3 colors during the session so that I can show how that makes me feel**
- **As a robot I will wink when I see white so that everyone knows I'm not that serious**
- **As a robot I will show loving eyes when I see black so that everyone knows I'm into gothic**
- **As a robot I will cheer when I see red two times so that everyone can see I'm happy**
- **As a robot I will shout "boo" when I see blue twice so that everyone knows I don't like blue**
- **As a robot I stop moving when I hit something so that I don't hurt any human (as per Asimov's law)**
- **As a robot I'll drive backwards when I'm ready scanning AND the remote control is operated so that I will return to my starting position and be ready for the next try.**

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Workshop: maak een charter

Maak een charter voor het testen van R0B3

Debriefing:
- **Wat voor test ideen heb je opgenomen?**
- **Waarom?**
- **Waar liep je tegenaan?**

10 minuten

4 Groepen

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Test de robot

Uitvoeren van de test (per groep)

Elke groep krijgt 3 minuten om te testen

Na 3 minuten 1 minuut debriefing

Elke volgende groep maakt gebruik van wat ze van de vorige groep geleerd hebben.

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Nuttige websites

www.tmap.net
- **building blocks**
- **workbook**

www.istqb.org
- **glossary**
- **syllabus**

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100.000 views op www.tmap.net sinds 2014

1.	Netherlands	36.661 (36,69%)
2.	United States	10.026 (10,03%)
3.	India	6.734 (6,74%)
4.	Germany	4.922 (4,93%)
5.	United Kingdom	4.658 (4,66%)
6.	Belgium	3.042 (3,04%)
7.	Sweden	2.863 (2,87%)
8.	France	2.199 (2,20%)
9.	Denmark	2.131 (2,13%)
10.	(not set)	1.639 (1,64%)

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The.
End. ☺

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