Case study

Lecture 6

Module 6

Operating systems 2018

1DT044 and 1DT096

Case study

Each group will **research** a topic and **present** their findings to other groups in form of an **oral** **group presentation** with **slides**.

We learn in different ways

As a rough estimate the following conclusions can be made regarding how much you remember after a learning activity.

20 % after **listening**

30 % after **reading**

70 % after **talking**

90 % after **doing**

20 % after **listening**
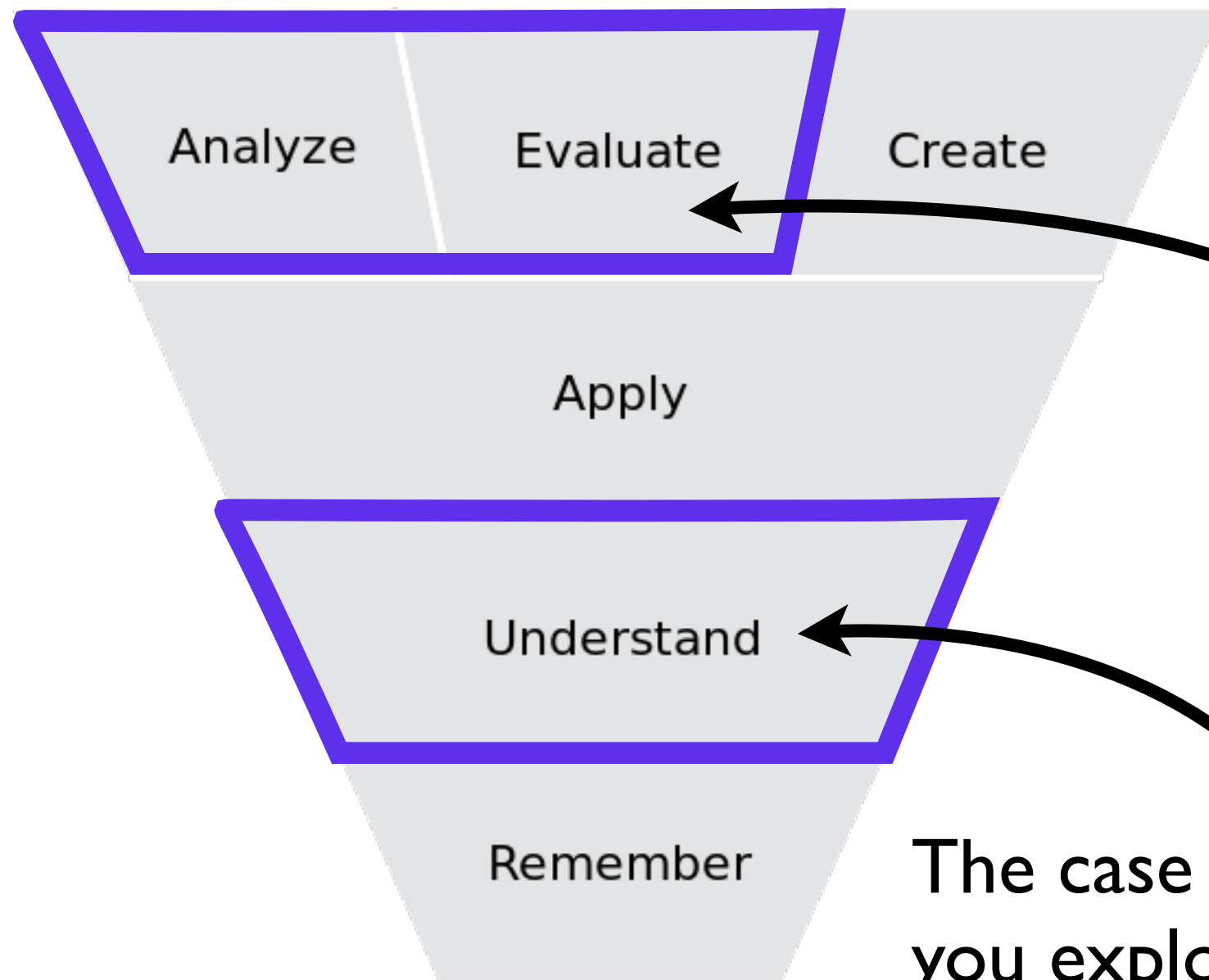
30 % after **reading**

70 % after **talking**

90 % after **doing**

To prepare for the case study presentation you will do a lot of reading on your own and discuss with the other members in your group.

During the oral presentation you will talk and while listening to other groups presentations you will listen.

Categories in the cognitive domain of the revised Bloom's taxonomy

Analyze | Evaluate | Create

Apply

Understand

Remember

The case study will make you explore these areas of the cognitive domain.

Time management

The time you have to research and put together your presentation is limited.

An important skill is to learn how to **manage** your **time** and how to **distribute** and **coordinate** the **work** in the group.

General requirements

1. All members of the group must participate in preparing the presentation.

2. The presentation should be in English.

3. The presentation should be 20 to 25 minutes.

4. Every presentation will end with a discussion.

General requirements

5. You should prepare and use slides (Powerpoint, Google slides, Prezi or similar).

6. Each group should bring their own laptop to the presentation.

7. All members of the group must talk during the presentation.

8. Not all members of the group must talk for an equal amount of time.

Audience

Each group will perform their presentation with **4 - 5** other **groups** and two members of the teaching staff as audience.

Opposition

During each presentations, one of the groups in the audience will be appointed as opponents.

The opponents:

▶ should gently inform the presenting group when there is:

  ▶ five minutes left of the presentation

  ▶ one minute left of the presentation.

▶ should listen actively during the presentation and takes notes to prepare questions for the discussion

▶ are responsible for leading a five minute discussion after the presentation.

OS (IDT044)

Each OS group will research an **operating system**.

Case	Operating system
1	VxWorks
2	Linux
3	Contiki
4	Android
5	TinyOS

Module 6

Case study (OS)

Friday

2018-03-09

Groups	Start	End	Duration	Case	Presenting	Opposition
A - D	09:25	10:00	00:35	VxWorks	A	C
	10:00	10:35	00:35	Contiki	B	D
	10:35	10:50	00:15	break		
	10:50	11:25	00:35	Android	C	A
	11:25	12:00	00:35	TinyOS	D	B
	12:00	13:15	01:15	lunch		

Groups	Start	End	Duration	Case	Presenting	Opposition
E - I	13:15	13:50	00:35	VxWorks	E	G
	13:50	14:25	00:35	Linux	F	H
	14:25	15:00	00:35	Contiki	G	I
	15:00	15:15	00:15	break		
	15:15	15:50	00:35	Android	H	F
	15:50	16:25	00:35	TinyOS	I	E

Tuesday

2018-03-13

Groups	Start	End	Duration	Case	Group	Opposition
J - M	13:15	13:50	00:35	VxWorks	J	L
	13:50	14:25	00:35	Contiki	K	M
	14:25	14:40	00:15	break		
	14:40	15:15	00:35	Android	L	K
	15:15	15:50	00:35	TinyOS	M	J

OSPP (IDT096)

In preparation for the final group project, each OSPP group will research a **programming language** with focus on **concurrent programming**.

Case	Programming language
1	Clojure
2	Erlang
3	Haskell
4	Go
5	Kotlin

Module 6

Case study (OSPP)

Monday

2018-03-12

Groups	Start	End	Duration	Case	Presenting	Opposition
	08:50	09:25	00:35	Clojure	Q	S
	09:25	10:00	00:35	Erlang	R	T
Q - U	10:00	10:35	00:35	Haskell	S	U
	10:35	10:50	00:15	break		
	10:50	11:25	00:35	Go	T	Q
	11:25	12:00	00:35	Kotlin	U	R

Groups	Start	End	Duration	Case	Presenting	Opposition
	13:15	13:50	00:35	Clojure	V	X
	13:50	14:25	00:35	Erlang	W	Y
V - Z	14:25	15:00	00:35	Haskell	X	Z
	15:00	15:15	00:15	break		
	15:15	15:50	00:35	Go	Y	V
	15:50	16:25	00:35	Kotlin	Z	W

Title slide

The first slide should include the following:

▶ Title of the presentation.

▶ Course name, course code and year (2018).

▶ Names of the group members participating in the presentation in alphabetical order.

Reference list

The presentation should end with a list of all referenced material such as URLs to websites, articles etc.

More information

On the **course homepage** you find more information about the case including:

▶ **Links** to more information about each case.

▶ Suggested **outline** for the presentation.