Case study

Kickoff lecture
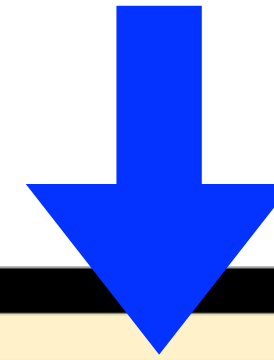
Module 6

Operating systems 2019

1DT044 and 1DT096

Module 6

Case study

W	D	Date	Comment	M0	M1	M2	M3	M4	M5	M6 (case study)	M7 (exam)	M8	M9 (project)
9	Mo	2019-02-25											
	Tu	2019-02-26						T					
	We	2019-02-27							L				
	Th	2019-02-28					Sr			L			
	Fr	2019-03-01						S					
10	Mo	2019-03-04							W				
	Tu	2019-03-05						C					
	We	2019-03-06											
	Th	2019-03-07						Tx					
	Fr	2019-03-08						Sr					
11	Mo	2019-03-11							S		W		
	Tu	2019-03-12						Cr + Ch					
	We	2019-03-13								P1			
	Th	2019-03-14	Blocked										
	Fr	2019-03-15	Exam (KandDv)										
12	Mo	2019-03-18	Exam (F)						Sr		W		
	Tu	2019-03-19	Exam (KandDv)										
	We	2019-03-20											
	Th	2019-03-21									E		
	Fr	2019-03-22	Exam (F)		Sr + Cr	Sr + Cr	Sr	Sr + Cr					

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.
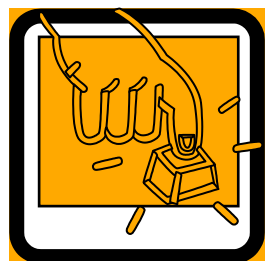
20 % after **listening**

30 % after **reading**

70 % after **talking**

90 % after **doing**

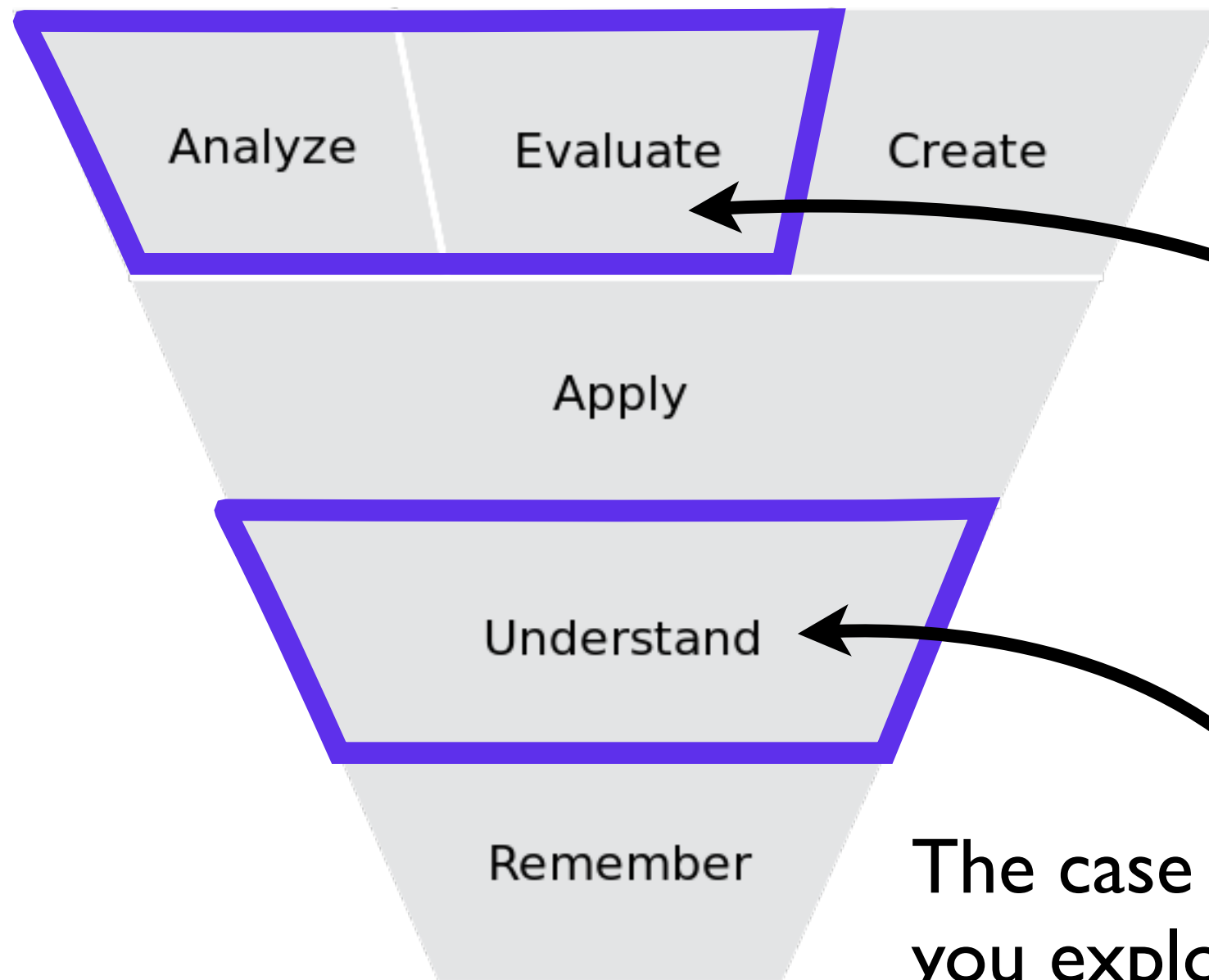|	
	20 % after **listening**
	30 % after **reading**
	70 % after **talking**
	90 % after **doing**

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.

Case study **kickoff** lecture.

				Modules							
Period 3				OS and OSPP						OSPP only	
				M0	M1	M2	M3	M4	M5	M6 (case study)	M7 (exam)	M8	M9 (project)
W	D	Date	Comment										
9	Mo	2019-02-25											
	Tu	2019-02-26						T					
	We	2019-02-27							L				
	Th	2019-02-28					Sr			L			
	Fr	2019-03-01						**S**					
10	Mo	2019-03-04							W				
	Tu	2019-03-05						**C**					
	We	2019-03-06											
	Th	2019-03-07						Tx					
	Fr	2019-03-08						Sr					
11	Mo	2019-03-11							**S**	W			
	Tu	2019-03-12						Cr + Ch					
	We	2019-03-13								**P1**			
	Th	2019-03-14	Blocked										
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12	Mo	2019-03-18	Exam (F)						Sr	W			
	Tu	2019-03-19	Exam (KandDv)										
	We	2019-03-20											
	Th	2019-03-21								**E**			
	Fr	2019-03-22	Exam (F)		Sr + Cr	Sr + Cr	Sr	Sr + Cr					

research

The **oral** group presentation with **slides**.

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** not including questions and discussion.

4. Every presentation will end with a **5 minute discussion** including **questions** from the audience.

General requirements

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

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

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

General requirements

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

9. A few days before the presentation, make sure you can connect your laptop to the projector.

10. If you need an adapter, contact Karl.

Audience

Each group will perform their presentation with **3** other **groups** and 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	Contiki
3	Android
4	TinyOS

Case study

OS (1DT044)

Wednsesday 2019-03-13

			Room		
			P1245		
Start	End	Duration	Case	Presenting	Opposition
09:15	09:50	00:35	VxWorks	D	B
09:50	10:25	00:35	Contiki	C	A
09:50	10:05	00:15	BREAK		
10:25	11:00	00:35	Android	B	D
11:00	11:35	00:35	TinyOS	A	C

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

Case study

OSPP (1DT096)

Wednsesday 2019-03-13

			Room			Room		
			PXXXX			PYYYY		
Start	End	Duration	Case	Presenting	Opposition	Case	Presenting	Opposition
09:15	09:50	00:35	Haskell	X	V	Haskell	T	R
09:50	10:25	00:35	Go	W	U	Go	S	Q
10:25	10:40	00:15	BREAK					
10:40	11:15	00:35	Clojure	V	X	Clojure	R	T
11:15	11:50	00:35	Erlang	U	W	Erlang	Q	S

Title slide

The first slide should include the following:

▶ Title of the presentation.

▶ Course name, course code and year (2019).

▶ 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.

▶ Detailed **schedules** for the presentations.

How to manage the case study?

How to use the power of the group?

Suggested project plan

- ▶ Initial meeting

- ▶ Individual research

- ▶ Outline

- ▶ More research

- ▶ Draft 1

- ▶ Draft 2 and rehearsal

- ▶ Final touches

- ▶ Paranoia

- ▶ Final presentation

Initial meeting

Agree on a small project plan:

- ⦿ Mandatory meetings

- ⦿ Internal deadlines

Previous experiences:

- ⦿ What do I want to improve?

- ⦿ How to improve?

Individual research

All members research the case individually

- ◉ Get an overview

- ◉ Set a tight deadline for this activity

Outline

After the individual research you are ready to discuss the outline of the presentation.

- ⦿ What do you want to focus on?

- ⦿ How to tell a good story?

More research

Now you are ready for a second pass of research.

- Should you do all research together as a group?

- Should you split up in pairs?

- Split up in other ways?

- If you split up, when should you report back to the group?

Draft I

Set a deadline for when you should have a first draft of the presentation ready.

- Make sure all slides have a consistent look.

- Use colors with high contrast.

- Don't be afraid to use a large font size

- Make sure to use images and figures.

- Make sure images and figures are as huge as possible with just enough details.

Draft I (continued)

Set a deadline for when you should have a first draft of the presentation ready.

- Make sure any code snippets are set in the largest font possible.

- Keep any code snippets as short as possible.

- OSPP - Should you add a live demo? Use a large font size for the demo!

- After the draft 1 deadline, get together and discuss how draft 1 be improved.

Draft 2 and rehearsal

Set a deadline for when you should have a second draft presentation ready.

- ◉ Decide who will present which slides.

- ◉ Organize a rehearsal presentation, optimally in the very same room as the final presentation but any room with a projector will do.

- ◉ If you need an adapter, contact Karl.

- ◉ Make sure all text and images are large enough for the audience in the back of the room.

Final touches

Keep improving the presentation. What did you learn from the rehearsal?

- Tempo and time utilisation?

- Do you tell a good story?

- Need to rearrange slides?

- Need to remove slides?

- Need to add slides?

Paranoia

Before the final presentation:

- Make sure you have the presentation available on a laptop.

- Don't trust the battery. Make sure to bring the power cord.

- No later than the day before the presentation, make sure you can connect your laptop to the projector in the room used for the final presentation.

- If you need an adapter, contact Karl.