



# EO COLLEGE

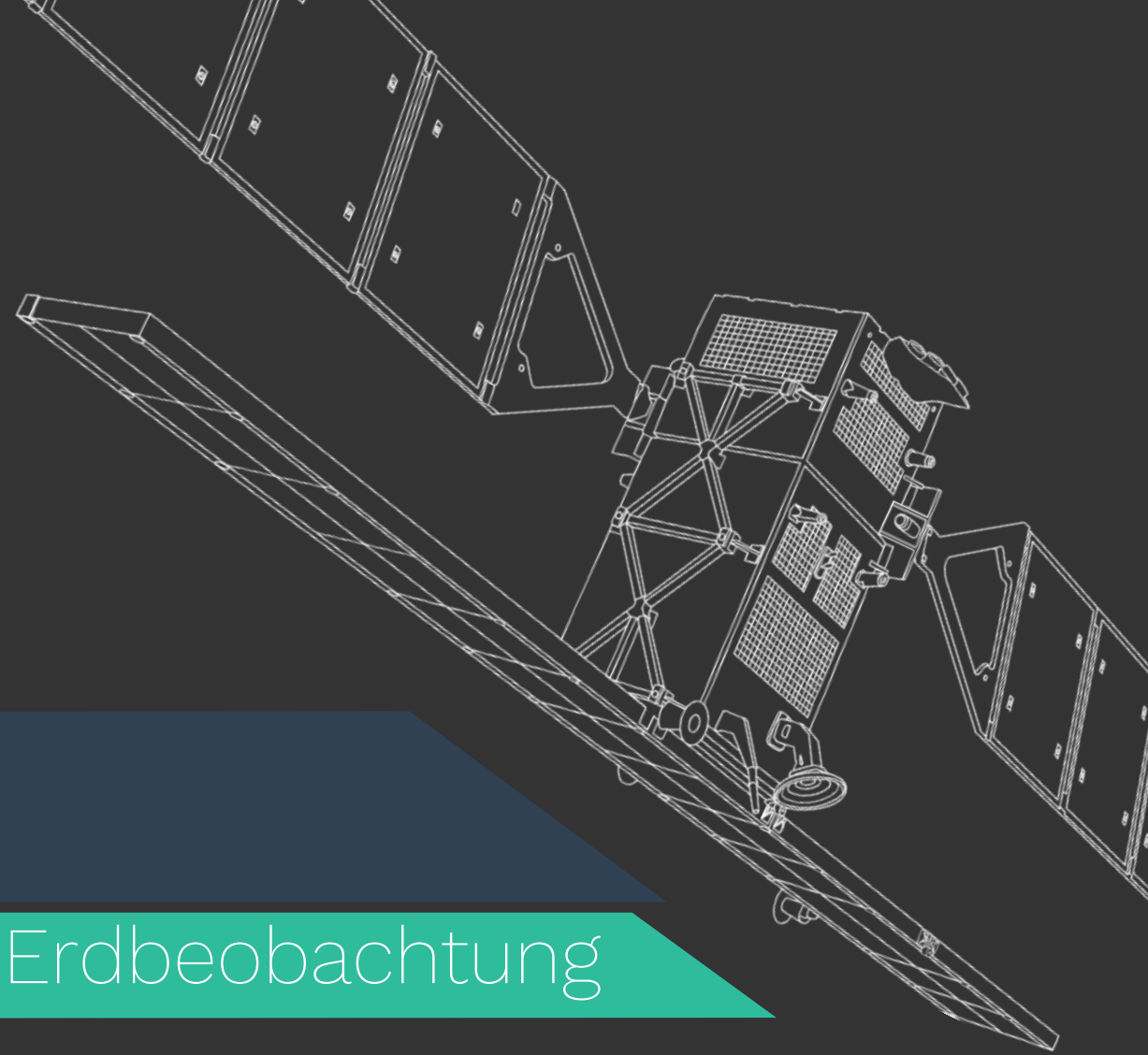
Die digitale Lernplattform für die Erdbeobachtung

Robert Eckardt, Clémence Dubois, Christiane Schmallius

*Lehrstuhl für Fernerkundung*

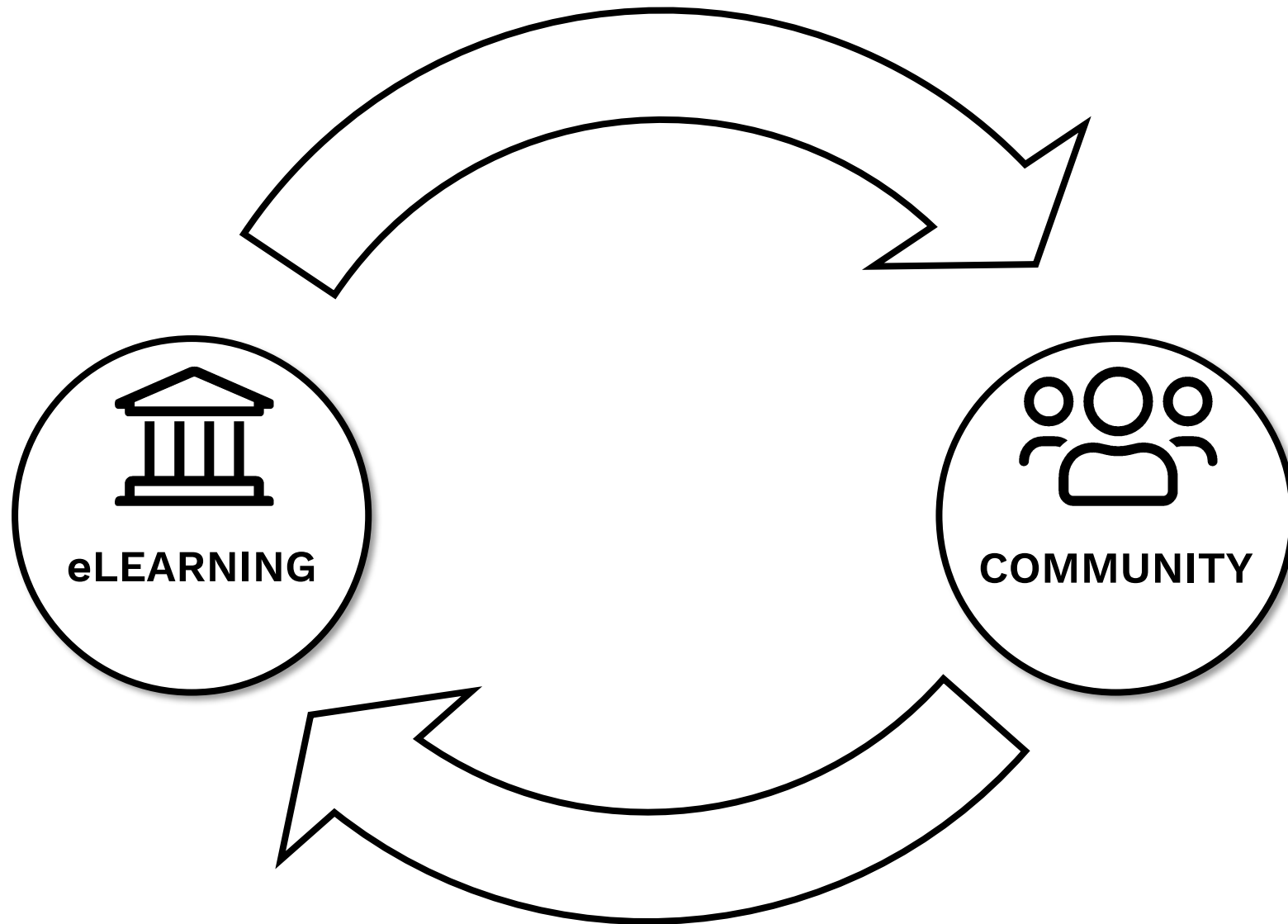
*Institut für Geographie*

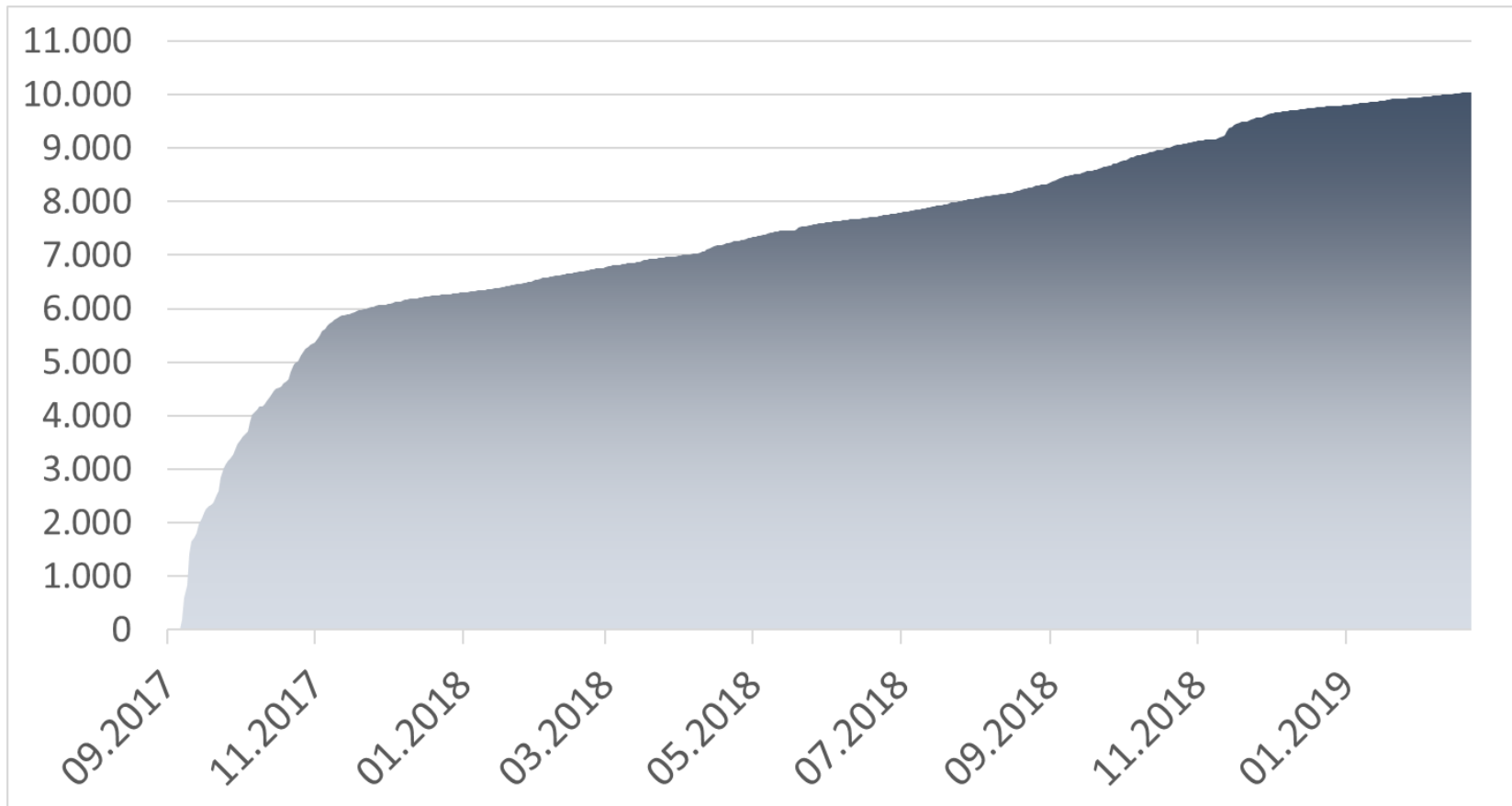
*Friedrich-Schiller Universität Jena*





# Das EO College





**September 2017**



**> 27.000 h spent on page**



**10.000 registered users**



**> 900.000 pageviews**



# ECHOES IN SPACE

Introduction to Radar Remote Sensing

	Videos	Tutorials	Animations	Expl <sup>2</sup>
<b>History</b>	39	0	2	17
<b>Geometry</b>	7	2	5	3
<b>Land</b>	11	3	2	2
<b>Water</b>	9	7	0	2
<b>Hazard</b>	12	2	0	1
<b>SUM</b>	<b>78</b>	<b>14</b>	<b>9</b>	<b>25</b>



## EO Land Applications (proposal submitted)

**HYPERedu**

**CSA Mini-MOOC**

**PolSAR Mini-MOOC**

**XYZ**

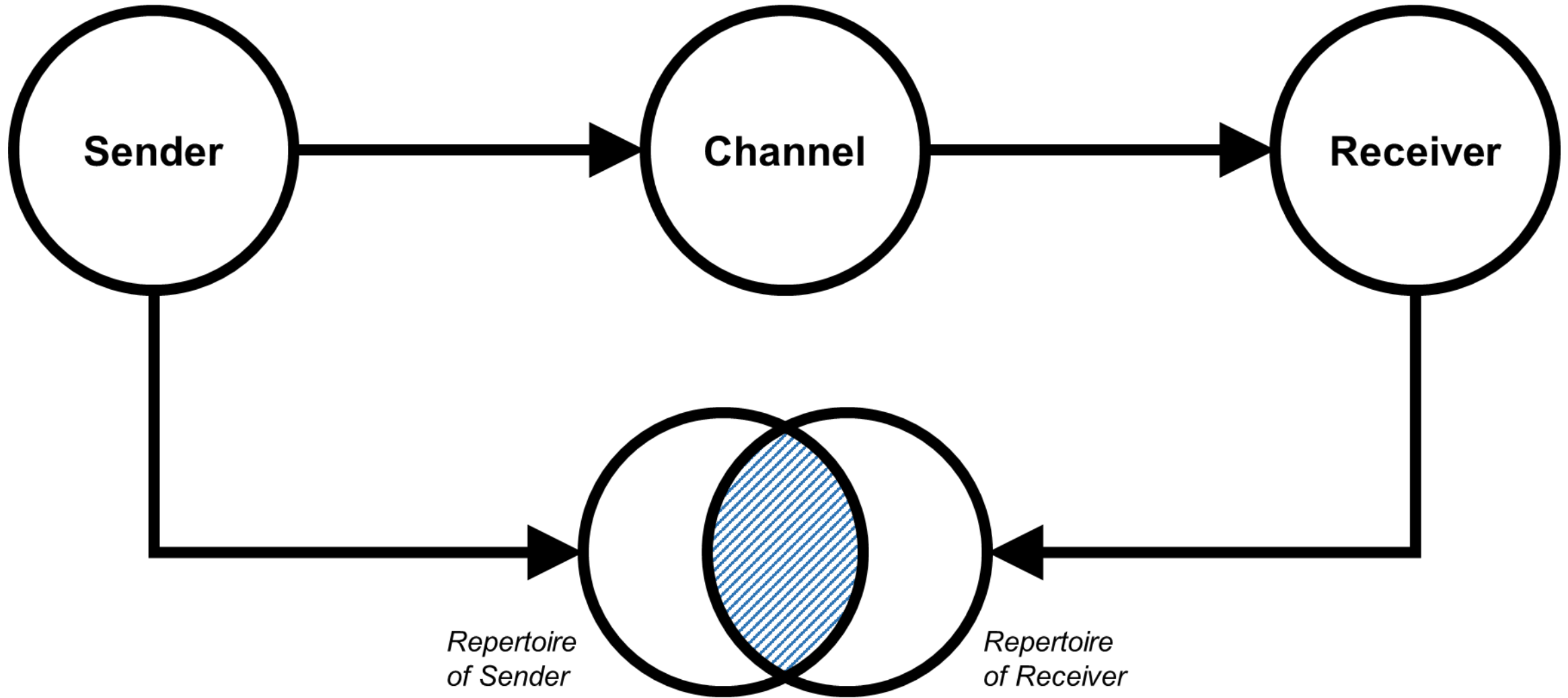


**RADAR BACKSCATTER**

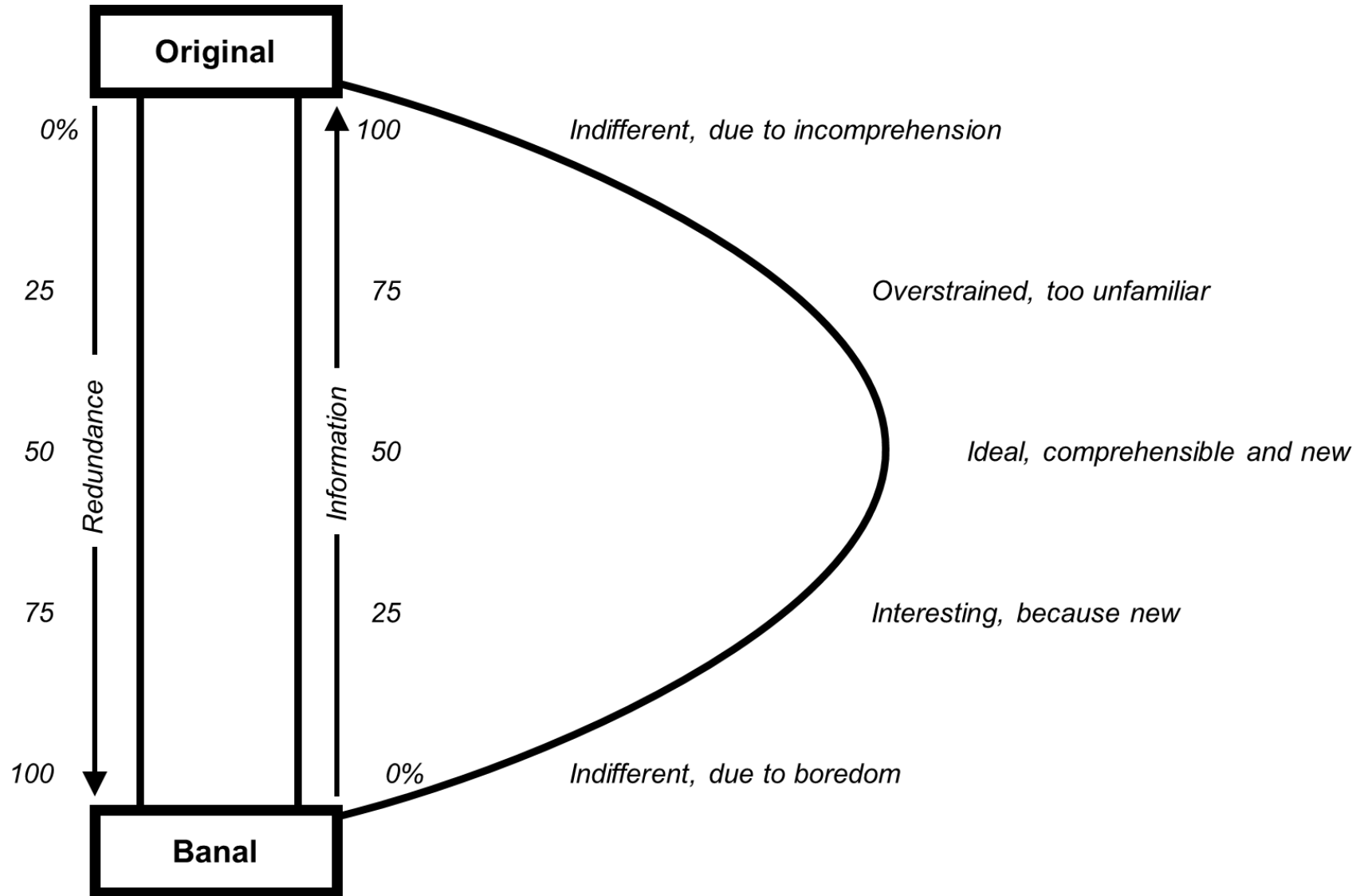
**ECHOES IN SPACE**

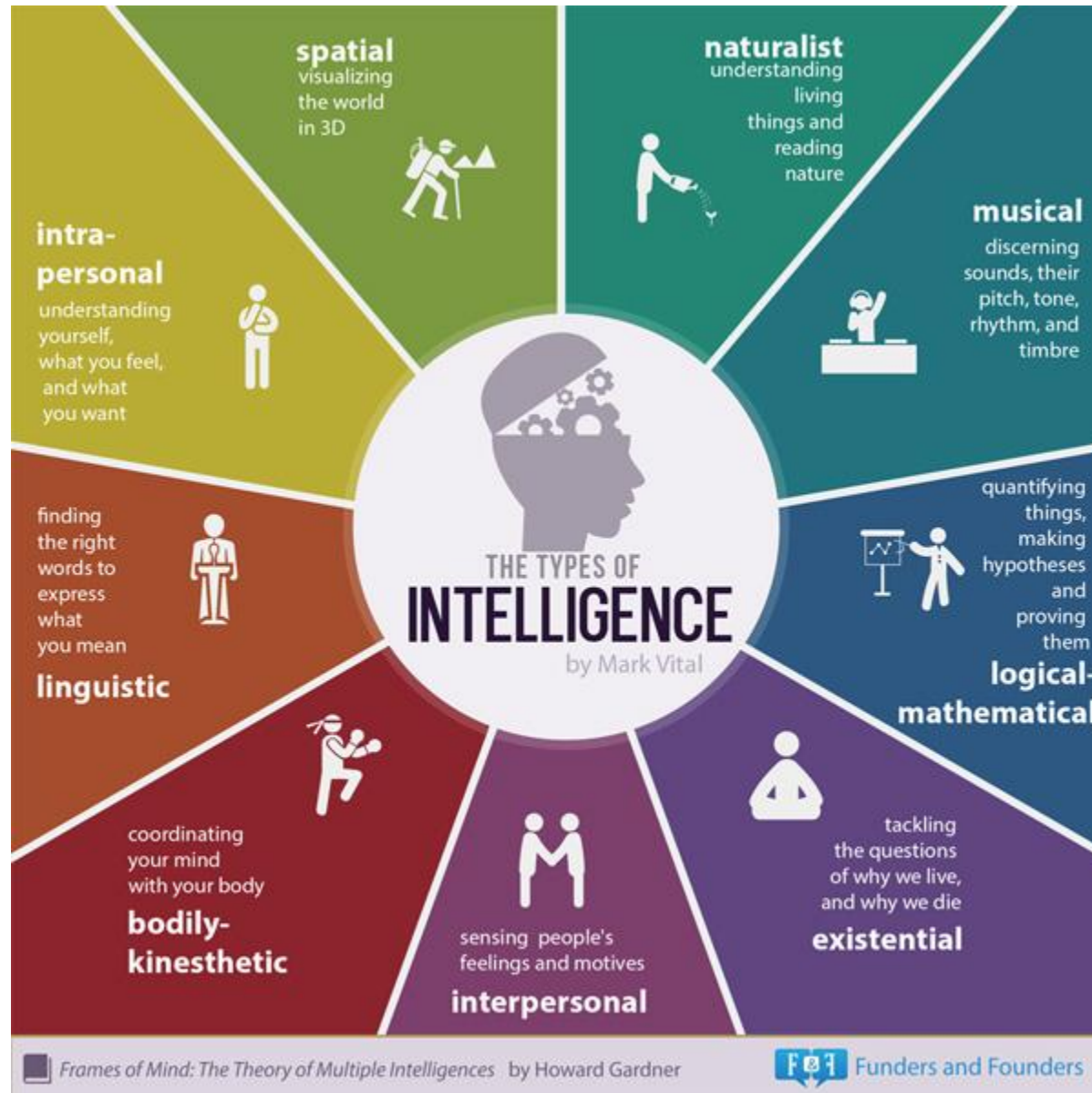


# eLearning Grundlagen











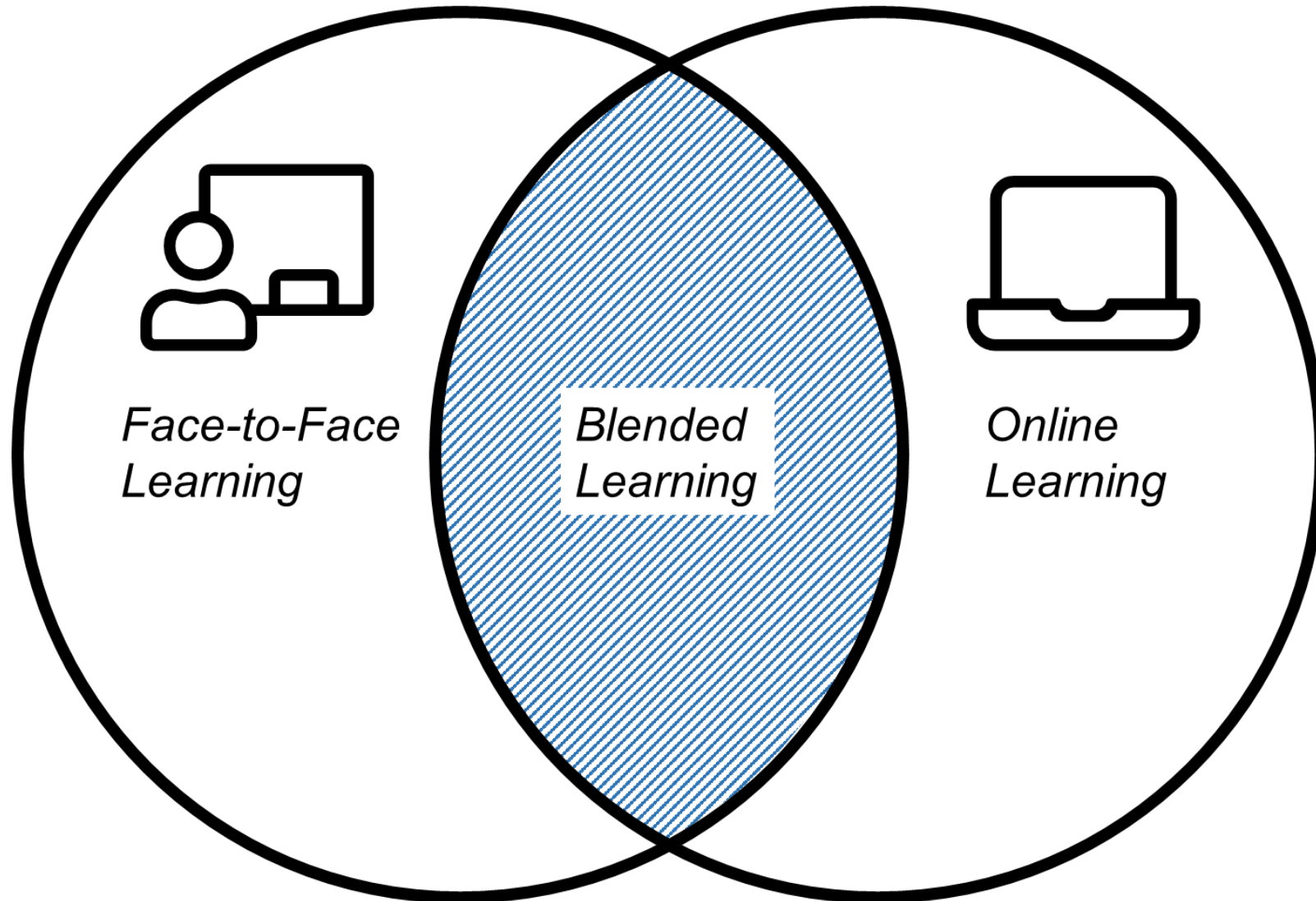
## Online Media equivalent

## After two weeks, we tend to remember...





# Lehre @ FSU



*Face-to-Face  
Learning*

*Blended  
Learning*

*Online  
Learning*



Online Learning

Face-to-Face Learning

**MOOC**

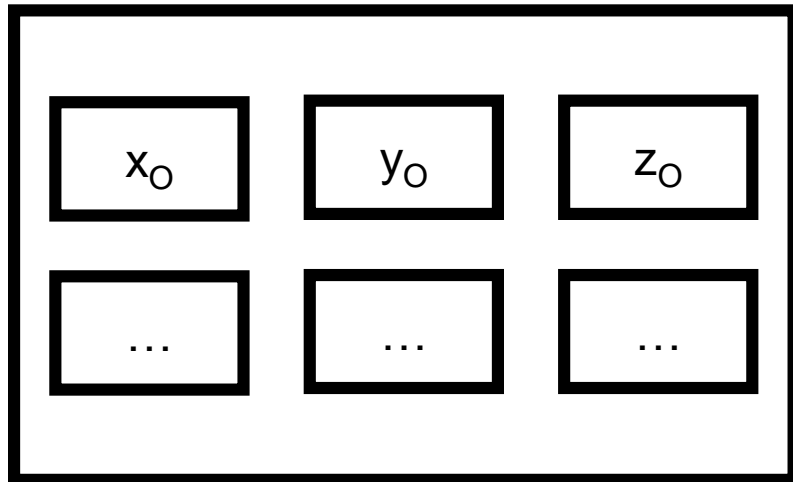
**LECTURE**

*Level of understanding*

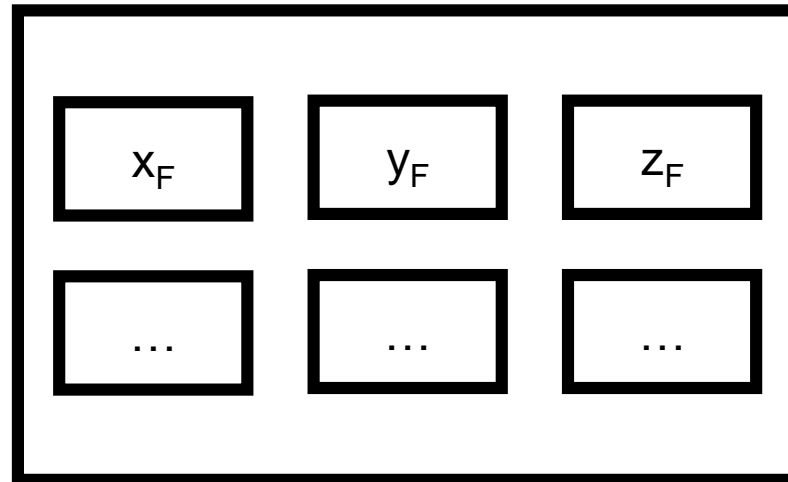




## Online Learning



## Face-to-Face Learning

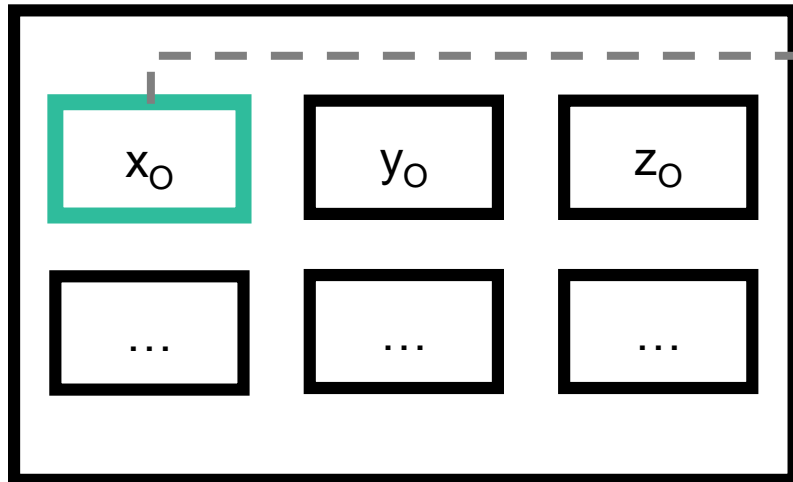


*Level of understanding*

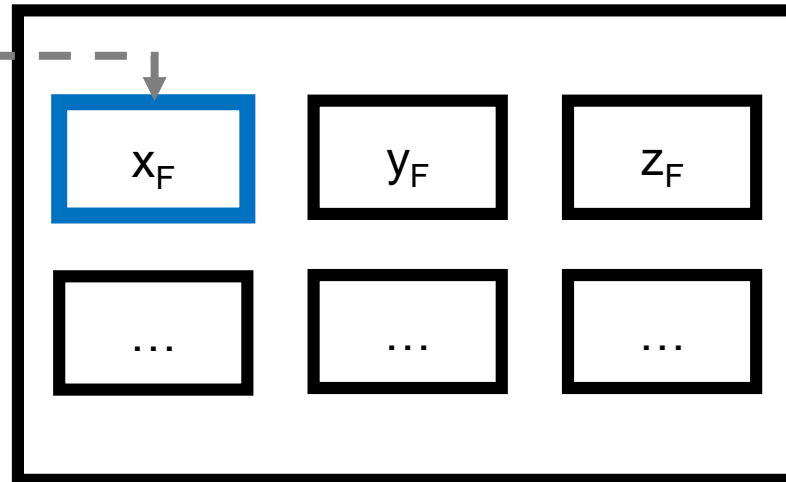




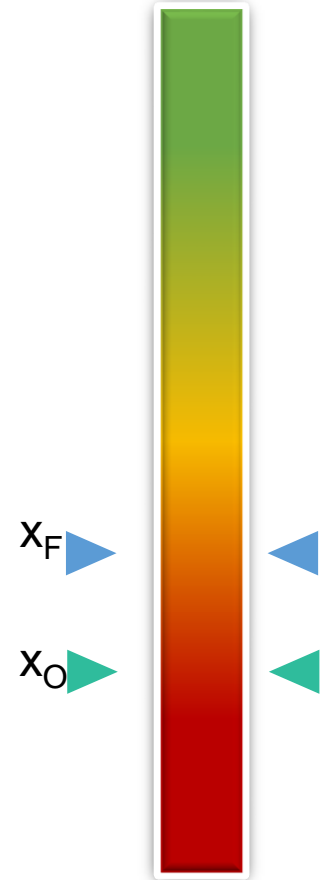
### Online Learning



### Face-to-Face Learning



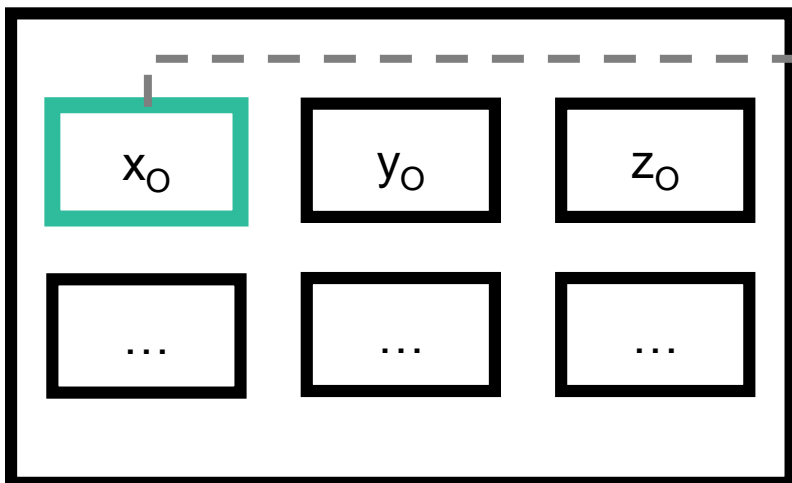
Level of understanding



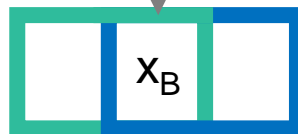
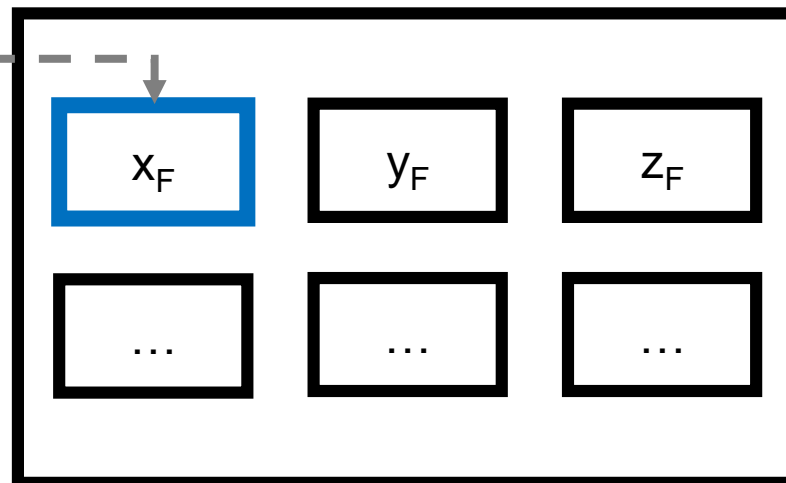




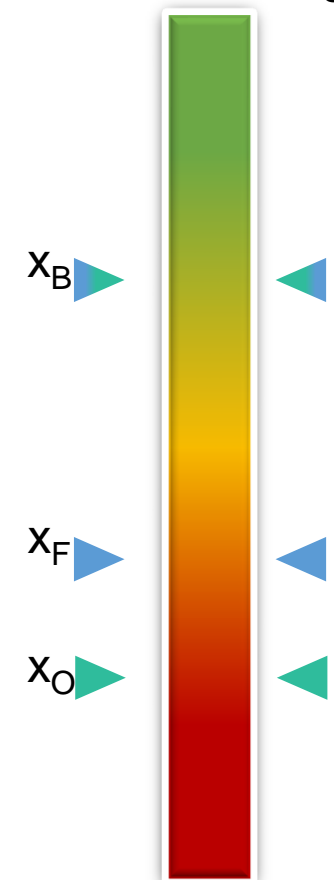
### Online Learning



### Face-to-Face Learning

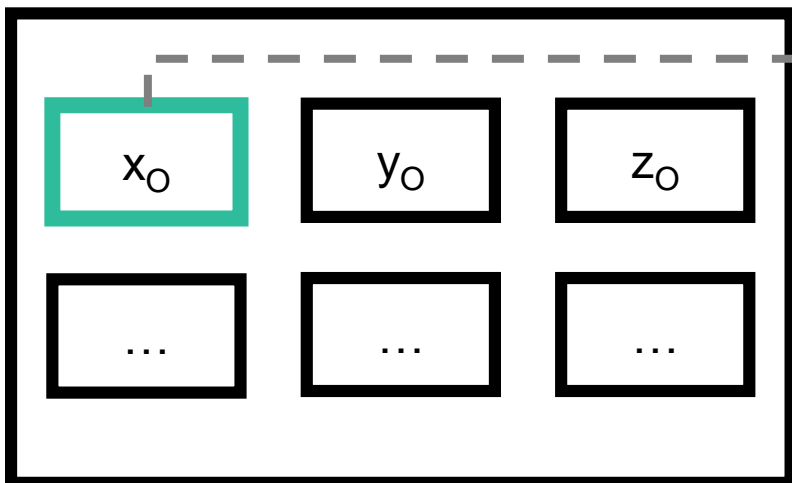


Level of understanding

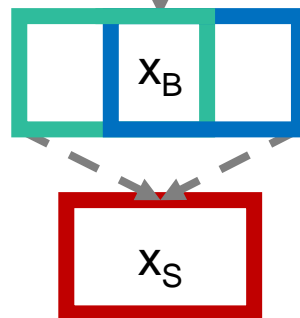
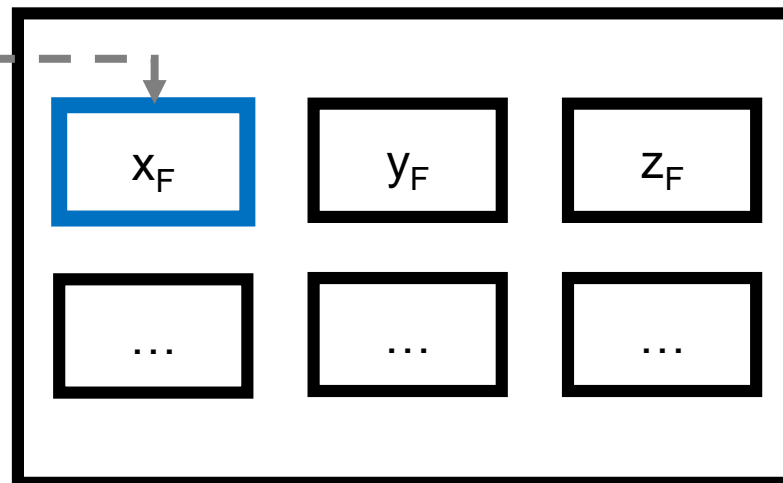




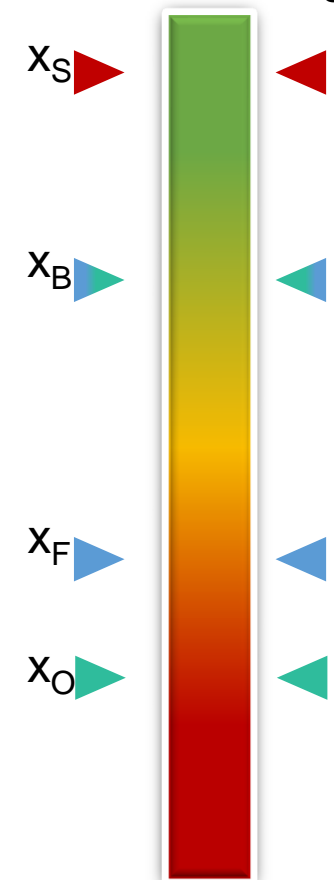
### Online Learning



### Face-to-Face Learning

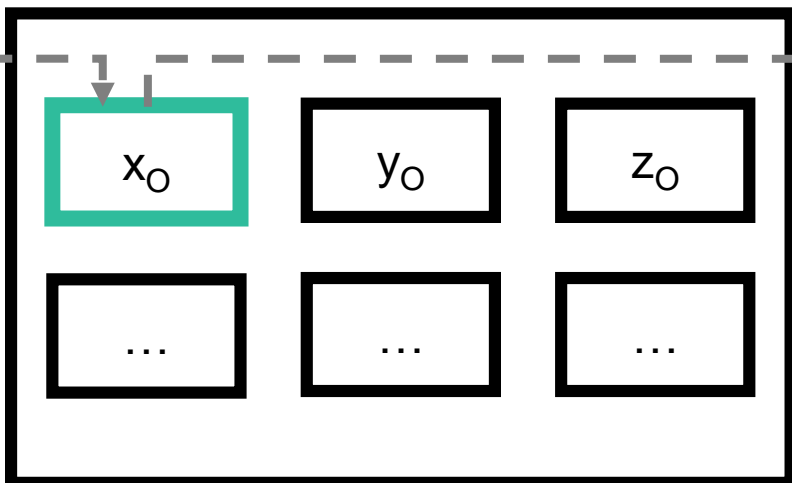


Level of understanding

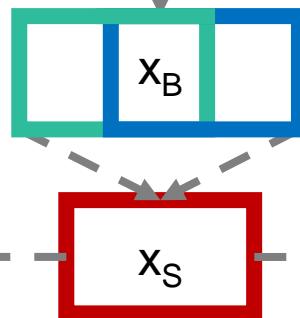
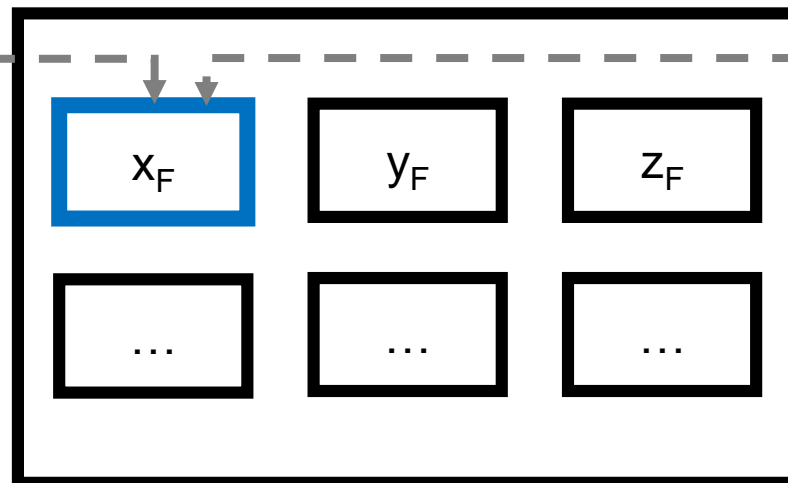




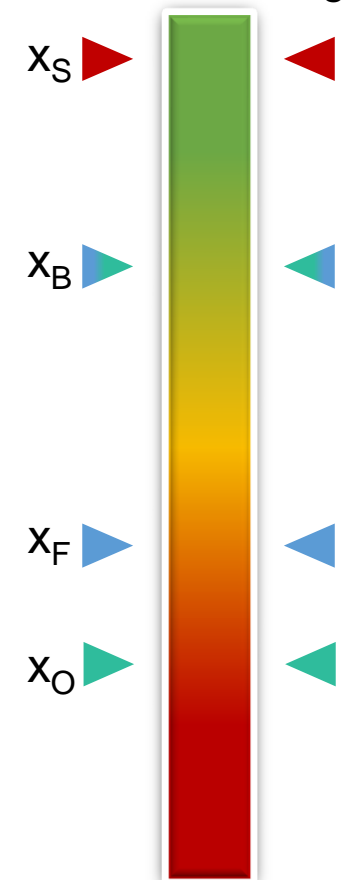
### Online Learning



### Face-to-Face Learning



Level of understanding



- O – Online
- F – Face2Face
- B – Blended
- S – Created by Student



## GEOG 312 – **Grundlagen** der Radarfernerkundung (B.Sc.)

- 10LP = 300h (90h Präsenzstunden, 210h Selbststudium)
- Prüfungsvoraussetzung: Echoes in Space (MOOC) : 15h → Zertifikat
- Prüfungsform :
  - 25% Klausur
  - Schriftliche Hausarbeit + Präsentation 50% (Theorie)
  - Mini-Projekt + Präsentation 25% (Praxis)



## WS 2018/2019

## Veränderungsanalyse mit unterschiedlichen EO-Daten

😊/😞 Anwendung (u. Wiederholung) des Erlernten während der Praxis, ähnliche Aufgaben später im Studium

😞 Reward-Faktor: Thematische Überlappung mit anderen Vorlesungen im EO-Bereich, keine weitere Nutzung der Ergebnisse

## WS 2019/2020

## Entwicklung von fachlichem Online Content (Text, Animierte Abbildung, Kärtchen, Ausführbarer Code)

😊 Anwendung des Erlernten während der Praxis

😊 Reward-Faktor: Nutzung von der Community, direkte Beteiligung in aktuellen Entwicklungen im EO-Bereich



1. Wie ist der Lernerfolg messbar?
2. Existieren bereits Studien/Konzepte?
3. Übertragbarkeit auf andere Fachbereiche?
4. Nachhaltigkeit der erstellten Lernmaterialien?