

Class Diagrams

and their analogies in code (TypeScript)

Prof. Dipl.-Ing. Jirka R. Dell'Oro-Friedl
V1.1 ©HFU2019

```
let courses: Course[] = [];  
  
let course: Course = { name: "Physics", docent: null, students: [] };  
course.docent = new Docent("Einstein", 71);  
course.docent.addSkill("Relativity");  
let student: Student = new Student("Heisenberg", 49);  
course.students.push(new Student("Hawking", 8), student);  
  
courses.push(course);  
courses.push({  
  name: "Art",  
  docent: new Docent("Picasso", 69),  
  students: [student, new Student("Dali", 46)]  
});  
  
for (let i: number = 0; i < courses.length; i++) {  
  let course: Course = courses[i];  
  console.log("Course: " + course.name);  
  console.log("Docent: " + course.docent.getInfo());  
  for (let student of course.students)  
    console.log("Student " + student.getInfo());  
}
```

