
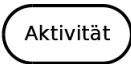














# Activity Diagrams

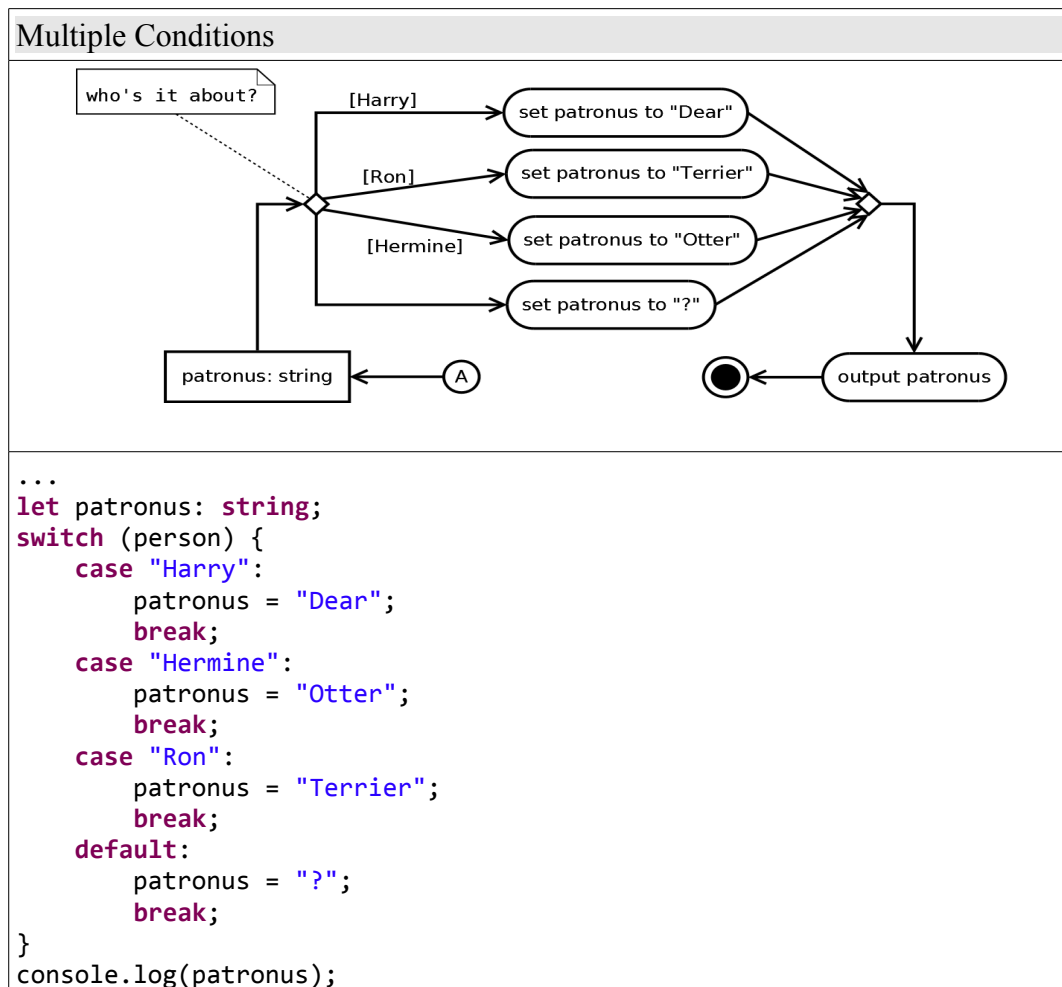
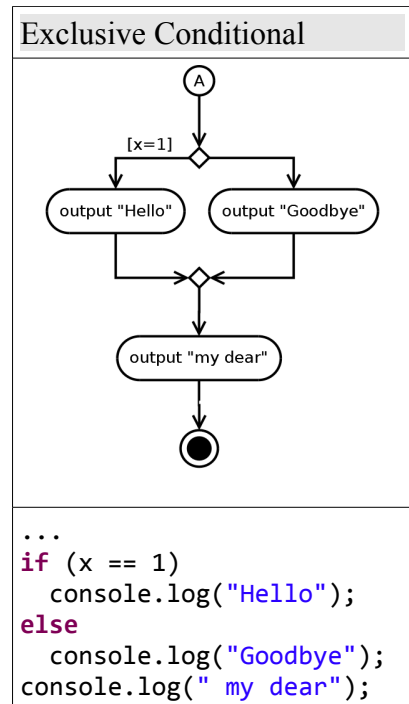
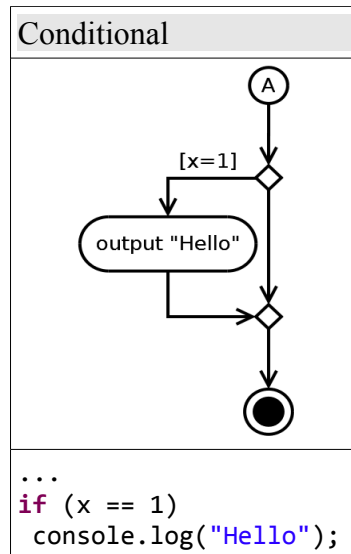
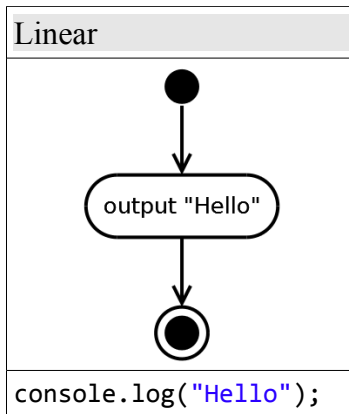
## and their analogies in code (TypeScript)

Prof. Dipl.-Ing. Jirka R. Dell'Oro-Friedl  
V1.0 ©HFU2018

### 1. Elements

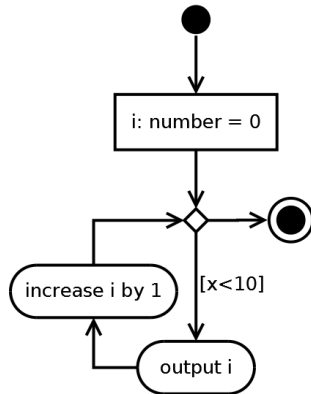
	Startknoten (Initial Node)		Aktionsknoten (ActionNode)
	Endknoten (ActivityFinalNode)		Objektknoten (ObjectNode)
	Ablaufendknoten (FlowFinalNode)		Notiz (Note)
	Konnektor (Connector)		Zeitsignal (AcceptTimeEventAction)
	Entscheidung und Zusammenführung (DecisionNode / MergeNode)		Signalempfang (AcceptEventAction)
	Teilung / Synchronisation (ForkNode / JoinNode)		Signalversand (SendSignalAction)
	Aufruf		
	Kontrollfluss / Objektfluss ActivityEdge (ControlFlow / ObjectFlow)		

## 2. Basic flow structures



### 3. Loops

Loop (Pre-Test)



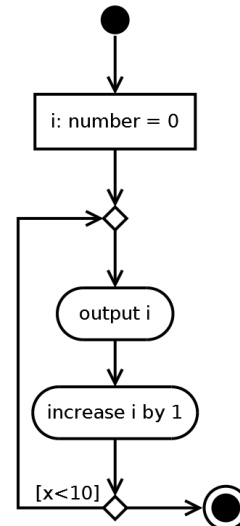
```

let i: number = 0;
while (i < 10) {
  console.log(i);
  i++;
}

oder

for (let i: number = 0; i < 10; i++)
  console.log(i);
  
```

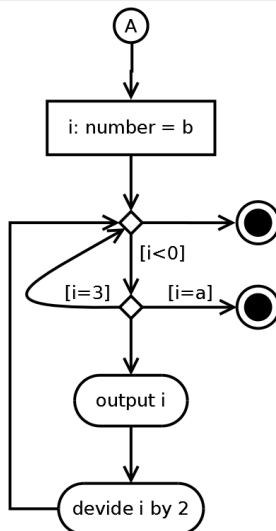
Loop (Post-Test)



```

let i: number = 0;
do {
  console.log(i);
  i++;
} while (i < 10);
  
```

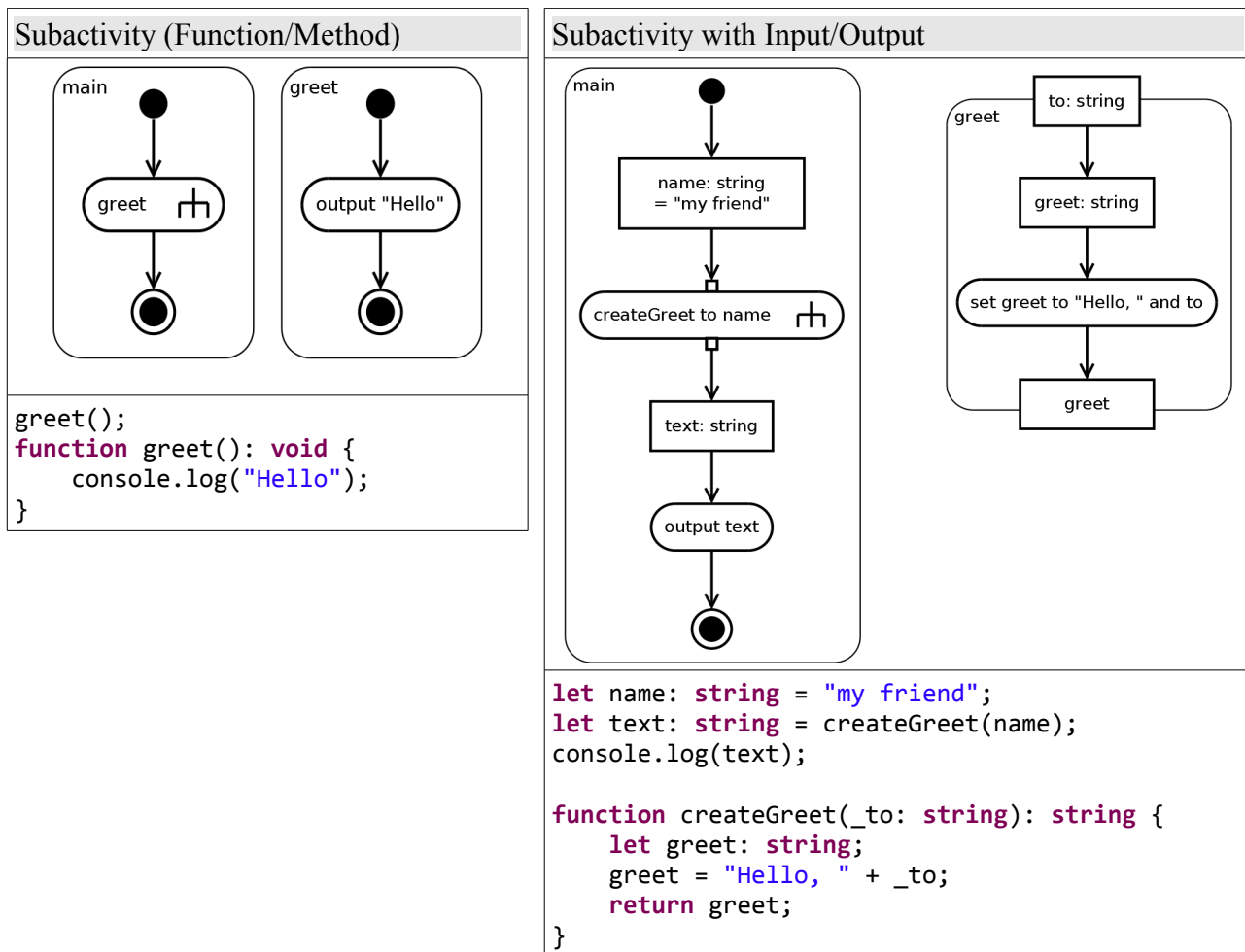
Loop with additional control conditions



```

for (let i: number = b; i > 1; i/=2)
{
  if (i == 3)
    continue;
  if (i == a)
    break;
  console.log(i);
}
  
```

## 4. Subactivities



## 5. Signals

