GRUPPE 1

Velkommen til
IN1010 - Uke 2

Plan for dagen

- Array og arraylist
- Hashmaps
- Klasse hierarki
- Casting

Arrayer

```
Integer[] array = new Integer[5];
```

```
Integer[] array = new Integer[5];

array[2] = 5;
```

```
for (Integer i : array) {
    System.out.println(i);
}
```

```
null
null
5
null
null
```

Arraylist

```
ArrayList<String> liste = new ArrayList<>();
```

```
import java.util.ArrayList;
```

```
ArrayList<String> liste = new ArrayList<>();

liste.add("Hei");
```

```
liste.get(0);
```

Hashmaps

```
HashMap<String, Integer> ordbok = new HashMap<>();
```

```
import java.util.HashMap;
```

```
HashMap<String, Integer> ordbok = new HashMap<>();

ordbok.put("Hei", 5);
```

```
 ordbok.get("Hei");
```

Klasse hierarki

```java
public class Frukt {

    String navn;

    public Frukt(String n) {
        navn = n;
    }

}
```

```java
public class Sitrusfrukt extends Frukt {

    int vekt;

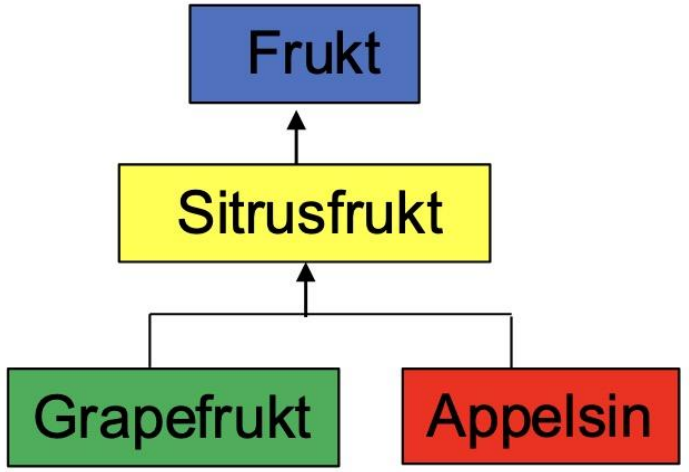
    public Sitrusfrukt(String n, int v) {
        super(n);
        vekt = v;
    }

}
```

```java
public class Appelsin extends Sitrusfrukt {

    String smak;

    public Appelsin(String n, int v, String s) {
        super(n, v);
        smak = s;
    }
}
```



Casting

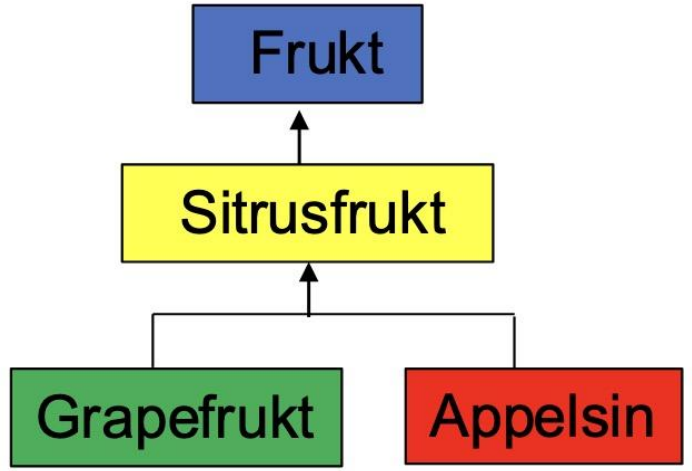
- Kan alltid upcaste

- Kan downcaste i noen tilfeller
  - Krever eksplisitt casting

```
Frukt f = new Appelsin();

Appelsin a = new Frukt();

Appelsin ap = (Appelsin) f;
```



Oppgaver