

A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with blue circles, and others with blue dots. The lines are thin and gray, creating a mesh-like structure.

Java function

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a cluster of nodes connected by lines, with several nodes highlighted in blue.

Hello!

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Java Methods

- ◎ A method is a block of code which only runs when it is called.
- ◎ You can pass data, known as parameters, into a method.
- ◎ Methods are used to perform certain actions, and they are also known as **functions**.
- ◎ Why use methods? To reuse code: define the code once, and use it many times.

Parameters and Arguments

```
static void myMethod(String fname) {  
    System.out.println(fname + " Refsnes");  
}
```

```
public static void main(String[] args) {  
    myMethod("Liam");  
    myMethod("Jenny");  
    myMethod("Anja");  
}
```

- © When a parameter is passed to the method, it is called an argument. So, from the example above: **fname** is a **parameter**, while **Liam**, **Jenny** and **Anja** are **arguments**.

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Anylogic

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a network of nodes connected by lines, with some nodes highlighted in blue. The overall style is clean and modern, with a focus on connectivity and data flow.

Software Presentation

- ◎ Function
- ◎ Just actions
- ◎ Returns values
- ◎ events

Sample

- ◎ Calculate factorial
- ◎ Calculate

$$\binom{n}{k} = \frac{n!}{k! \times (n-k)!}$$



Thanks!

Any questions?

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