

System-Level Programming

10 Variables

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- **variable** := container for values (\mapsto memory space)
- Syntax (definition of variables):

$sc_{opt} \; type_{opt} \; id_1 \; [\; = \; expr_1]_{opt} \; [\; , \; id_2 \; [\; = \; expr_2]_{opt} \; , \; \dots]_{opt};$

■ sc_{opt}	storage class of the variable, <code>auto</code> , <code>static</code> , or none	[Java]
■ $type$	type of the variable, <code>int</code> if no type is given (\mapsto bad style!)	[=Java] [Java]
■ id_i	name of the variable	[=Java]
■ $expr_i$	expression for initial value; if no value gets assigned, the content of non- <code>static</code> variables is <code>undefined</code>	[Java]





We will have a closer look at global variables when talking about **modularisation** → 12-5

