

contexts where `this` (section 4.2) references a derived class instance or a derived class constructor function. Specifically:

- In a constructor, instance member function, instance member accessor, or instance member variable initializer where `this` references a derived class instance, a super property access is permitted and must specify a public instance member function of the base class.
- In a static member function or static member accessor where `this` references the constructor function object of a derived class, a super property access is permitted and must specify a public static member function of the base class.

Super property accesses are not permitted in other contexts, and it is not possible to access other kinds of base class members in a super property access. Note that super property accesses are not permitted inside standard function expressions nested in the above constructs because `this` is of type Any in such function expressions.

Super property accesses are typically used to access overridden base class member functions from derived class member functions. For an example of this, see section 8.4.2.

The JavaScript code generated for a super property access is specified in section 8.6.2.

4.9 Function Expressions

Function expressions are extended from JavaScript to optionally include parameter and return type annotations, and a new compact form, called arrow function expressions, is introduced.

FunctionExpression: (Modified)

function Identifier_{opt} CallSignature { FunctionBody }

AssignmentExpression: (Modified)

...

ArrowFunctionExpression

ArrowFunctionExpression:

ArrowFormalParameters => Block

ArrowFormalParameters => AssignmentExpression

ArrowFormalParameters:

CallSignature

Identifier

The terms **standard function expression** and **arrow function expression** are used to refer to the *FunctionExpression* and *ArrowFunctionExpression* forms respectively. When referring to either, the generic term **function expression** is used.

The type of a function expression is an object type containing a single call signature with parameter and return types inferred from the function expression's signature and body.