Overview

CommonJS

* Module Spec
* Syntax: require, module.export
* Implementaion: Browserify
* Node.js implements, resp. extends CommonJS  
  see (http://exploringjs.com/es6/ch\_core-features.html#sec\_from-cjs-to-esm)

AMD (Asynchronous Module Definition)

* Module Spec
* Syntax: require, define
* Implementaion: RequireJs

UMD (Universal Module Definition)

* Module Spec

RequireJs

* Module Loader (implementing AMD)

SystemJs

* Module Loader
* Universal dynamic module loader
* Supports CommonJS, AMD and ES6 modules (ecmascript imports) in Browser and NodeJs

Jspm

* Module Loader and Bundler
* Built on top of SystemJs

Webpack

* Module Loader and Bundler
* Used in AngularCLI as default

ReferenceError: wenn Variable nicht deklariert

undefined: Variable nicht definiert (kein Wert zugewiesen)

Function declaration

function bar() {

return 3;

}

Function expression (assignment to a variable via function literal: 4 parts, function, name, args, set of stats in curly braces)

var a = function() {

return 3;

}

Method

var a = {

value: 0,

printValue: function(){

console.log(this.value);

}

}

a.printValue();

Scope and this → TODO

In strict mode, *this* is undefined in non-method functions, i.e. if called via function invocation pattern (not as part of an object) *this* is undefined

In ES6 arrow functions dont have this, i.e. if *this* is accessed, *this* of the outer function will be accessed.