

So, basically:

1. At JS level, any function, say for example: function myfoo() { }

has a prototype property (in it's dictionary) that points to a shared object. This object is in variable search scope of all objects created via the new operator. like:

var f1 = new foo()

The prototype/shared object is similar to a superclass static class variable in say, Java (of type *Map*). All instances (f1, f2, etc) have access to the same superclass Map automatically.

This scope is shown in yellow/orange in the above diagram.

2. function themselves are *also* presented as "objects" in JS. These function objects are created by a JS "Function" creator , so functions also have their own shared static superclass Map (common to all functions)

This scope is shown in red in the above diagram.

Note 1 : the red and orange chains are separate.

Note 2: both scopes (whether or functions or simple objects) end at the prototype for "Object", so anything set in Object.prototype is visible to everything in the system (unless over-ridden/shadowed by the same property in a particular object).

As always, the 2 best sources of information are:

Mozilla developer documentation (mozilla.org)
JavaScript: The Definitive Guide, by David Flanagan