## Basic principles

The Getting started section has familiarized you with the basic building blocks and principles of greenfox schemas. They can be summarized as follows:

* A file system contains two kinds of resource, **folders** and **files**
* Resources are validated against **resource shapes**
* Folders and files are validated against folder and file shapes, respectively
* A resource shape is a set of **constraints** which apply to a resource being validated
* The resources validated against a shape are called its **focus resources**
* A resource shape may have a **target declaration** which selects a set of focus resources, called a **target** of the shape; a typical target declaration is a foxpath expression
* The constraints of a shape are usually represented by child elements of the shape element
* An exception is the targetSize constraint, which is a child element of a child element of the shape to which it belongs)
* Constraints can apply to **resource properties** like the last update date
* Constraints can apply to a **resource value**, which is a value to which the resource has been mapped by an expression
* A resource value is obtained from an XPath or a foxpath expression
* A **value shape** is an expression mapping the focus resource to a resource value, and a set of constraints which apply to the value
* There are two kinds of value shapes, XPath value shapes and foxpath value shapes
* When validating resources against shapes, the heterogeneity of mediatypes can be hidden by a **unified representation as XDM node tree**
* When validating resources against shapes, the heterogeneity of navigation and selection (from resource contents and from file system contents) can be hidden by a **unified navigation language** (foxpath)