Invoking methods

AudioFile

fileName: String

AudioFile(String) play(): void changeVolume(int): void "A method call is also known as message passing. It is conceptualized as a message (the name of the method and its input parameters) being passed to the object for dispatch."

https://en.wikipedia.org/wiki/Object-oriented_programming#Dynamic_dispatch.2Fmessage_passing

AudioFile af = new AudioFile("mysong.mp3");

af.play();

af.changeVolume(11);

"it is the responsibility of the object, not the external code, to 'on-demand' select the procedural code to run/execute in response to a method call, typically by looking up the method at run time in a table associated with the object. This feature is known as dynamic dispatch, and distinguishes an object from an abstract data type (or module), which has a fixed (static) implementation of the operations for all instances."

https://en.wikipedia.org/wiki/Object-oriented_programming#Dynamic_dispatch.2Fmessage_passing

AudioFile

fileName: String

AudioFile(String) play(): void changeVolume(int): void

changeVolume is a method

• af is a reference to an AudioFile object

af.changeVolume(11)

.. invokes the changeVolume method on/associated with af.

All other Audio File objects (if any) remain the same



af1.changeVolume(11);



af2.changeVolume(1);



AudioFile af3 = af1;



af3.changeVolume(9);

