

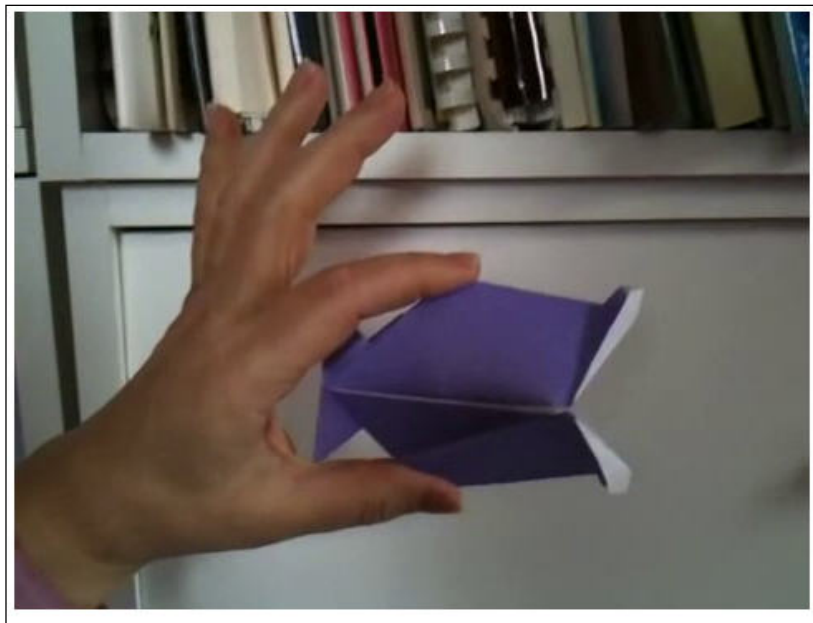
# Creating Directions for Origami using HTML5 JavaScript or Processing

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## Abstract

Features in the current specification of HyperText Markup Language and JavaScript, termed HTML5, namely drawing on a canvas and incorporating photographs and video, provide powerful and flexible capabilities for preparing mixed modality directions for folding origami models. The methodology shown here demonstrates topics in geometry, trigonometry and algebra as well as basic programming that would appeal to teachers and students. In this paper, after providing background on origami and on HTML5 and JavaScript, I describe the programs for the business card frog and the talking fish. At a later stage, because Processing is the programming language we use for our CS1 class, I ported the program to produce a Processing sketch, which revealed significant characteristics of the language.



**Figure 1:** First frame from video clip of talking fish.