





## Actuation gaits





The markers measurement from an experiment are plotted in the xy xz zy planes and isometric display are plotted, allowing us to visualize the movement of the swimmer easily. The markers' colors match the colors in the sketch above.

# Shape-underactuated systems modeling and control

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influence of their underactuated shape variables.

smooth effect (like the stoppers). We would like to perform new experiments on other robotics systems with more significant