

# Introduction

Similar fluid animations are required to create large scale fluid scenes.

Problems in creating multiple animations:

- repeating fluid simulations many times with different parameters
- time-consuming task for adjusting parameters
- huge computational costs for fluid simulations

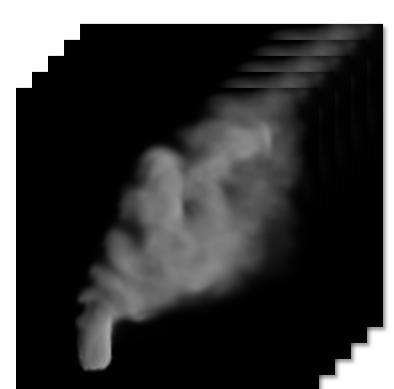
A method for efficiently creating various fluid animations

Our method can create various flow fields;

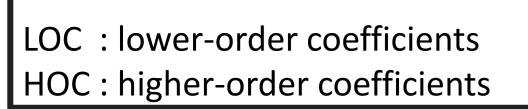
- from a single simulated dataset
- without executing fluid simulations
- by modulating PCA coefficients

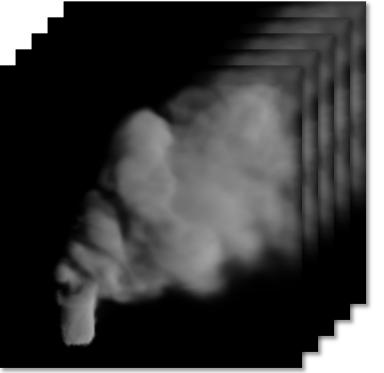


# Smoke examples

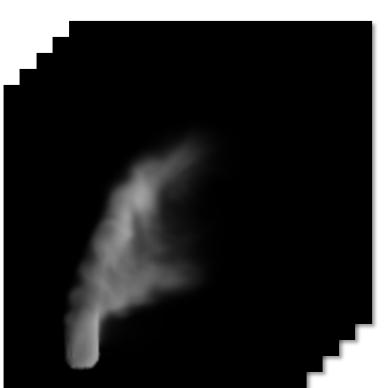


original





(a) increasing LOC



(c) decreasing LOC



