

Experimenting with Water Clouds

round 12 or 13 years ago, during a visit to the Ginichi Studio Shop in Tokyo, I bought a few things that I was hoping to someday use to experiment with photographing food dye in water. One of the things I bought was a fivecentimeter diameter perspex ball that I was hoping would give a good effect as the dye flows around it, and the second was a very small perspex tank, that I realized afterward would not be big enough to make this work, and that is part of the reason why thirteen years have passed and I never got to this project.



Well, last week I recalled the project and took a look on Amazon Japan and found a set of eight food dyes that would be great for dropping into water, and I bought a small fish tank, 30 centimeters across, that I figured would probably be around the smallest I could use and get the results I was hoping for. I roped my wife in, and we used a good

chunk of our Sunday afternoon to see what I could come up with. I was relatively happy with the results, so I'll share them with you in this episode.

I learned a lot, and will probably do this again at some point, probably after my wife's patience has replenished, as I ran it rather thin yesterday. The main things learned were that using a dark background makes a lot of bubbles show up both on the sides of the tank and in the dye being dropped into the tank, but also how you drop the dye in makes a difference. From the start, I cut a hole in the cardboard cover that came on the fish tank and pushed the spout of a funnel through that. I wanted the dye to enter the water with as little resistance as possible, so I filled the tank with enough water for the spout of the funnel to become submerged. We

then learned that pouring the water straight into the hole in the funnel produces bubbles, so we started to pour the liquid around the edges and allow it to run down the edge of the funnel into the spout. This gave the best results.

I also gave some thought to the colors used and the order in which each color would be added. Essentially, you get one clean color per tank full of water, and then you can add colors, and have the first color present at the bottom of the tank, and the colors will gradually mix as you add more, until the level of dye in the tank gets too high, or the colors mix so much that it simply doesn't look good anymore.

For the first few tanks of water, I was mixing around 15 drops of food coloring with about 5 millimeters of water, which

was about 20 milliliters. With a dark background, I had to increase the exposure so high that every imperfection in the glass showed up and even though I was firing a Profoto studio strobe with a 10° Honeycomb Grid fitted directly into the tank at almost full power, it really didn't work, as you can see in this image, which is straight out of the camera. I had run a plastic rule along the inside of the tank to remove bubbles, but it was really just a mess with the dark background, so I switched to white. For comparison, my exposure for this image was ISO 4000 at f/11 for 1/160 of a second.

Here is an iPhone photo of our dining table with the tank full of water, the funnel in place on top, my camera with a macro lens on the right, pointing into the tank, and a white reflector on the left, acting as a makeshift white









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I was able to do two things with this that gave me pretty much what I'd been hoping for, as you can see in this processed version. First, I brought the exposure under control, and then, I selected the background and made it black. This was the look I was hoping for, so we did another tank or two, now using a solution with half milk and half water.

The logical thought process here leads me to believe that if I'd used milk in the dye to begin with, because it caught the light so much more, requiring a lower exposure, I probably could have gone back to the dark background, and may have saved a little processing time, although I may have still had a certain amount of cleaning up to do to remove the imperfections in the glass. With this setup, and the ability to select the background relatively easily in Capture One Pro, I was able to process around twenty images that I was happy with, so I'll chalk this one up to a success, with some good learning in the process.

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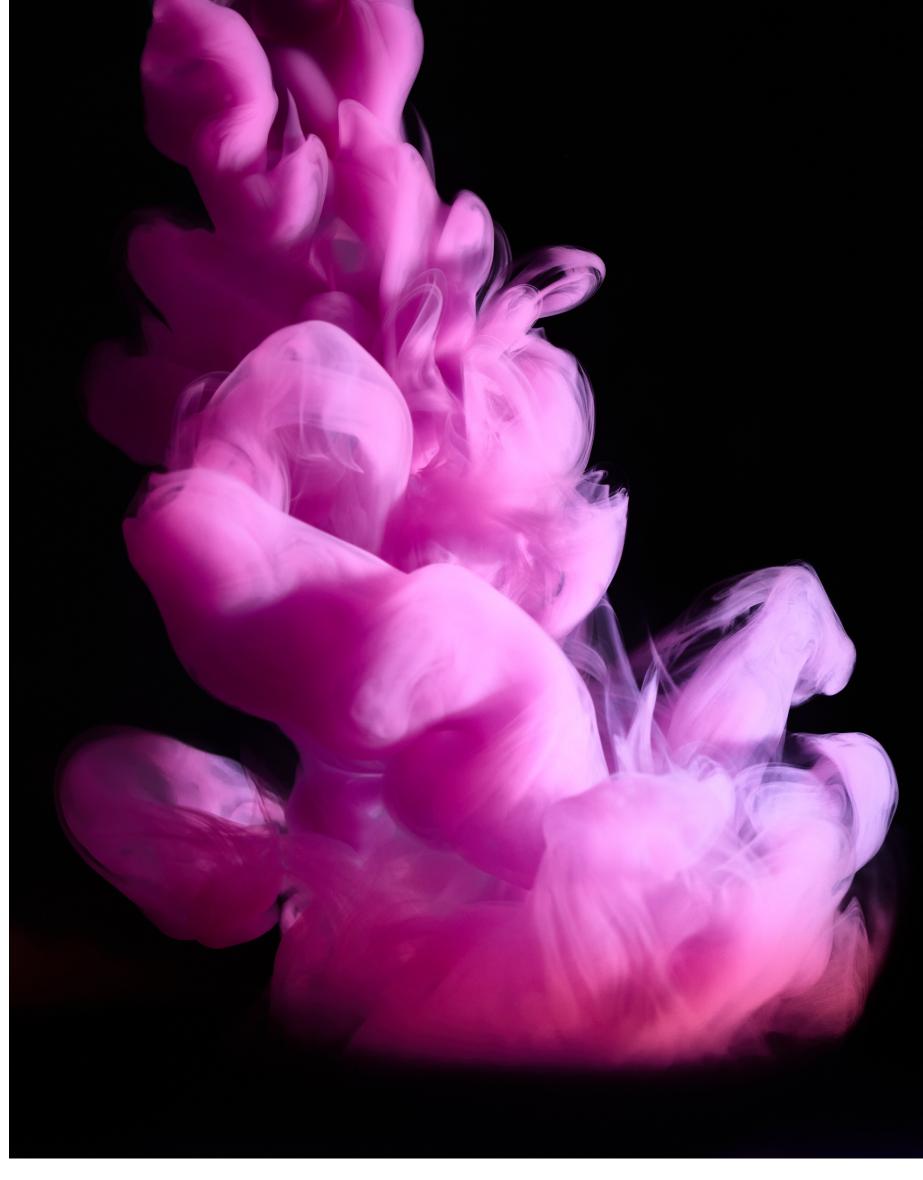


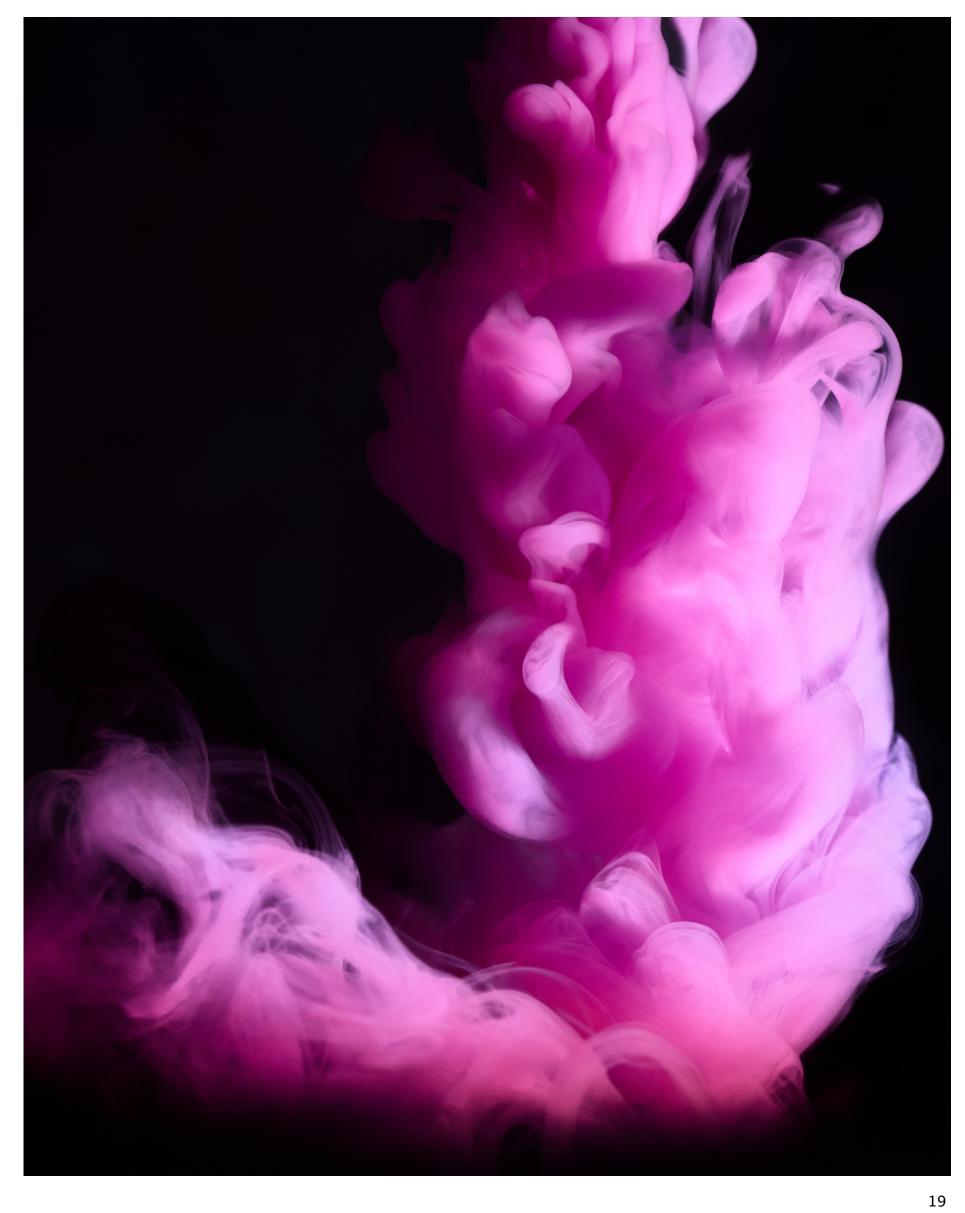






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