Non-Newtonian Fluid Recipe

Using only corn flour and water, this amazing mixture behaves like a solid one instant and a liquid the next. A little bit of pressure changes everything! By the end of the experience, you'll have your hands on, in, and all over this wonderful solid-liquid (or is it a liquid-solid?) goo.

How to make a Non-Newtonian Fluid

1. **NOTE:** Anyone working in the bowl needs to wash hands first. That keeps the goo much cleaner and more pleasant to study. Pour some corn flour into a mixing bowl and slowly add a little bit of water at a time.
2. It'll be tough to stir with a spoon. It's just easier – and ***way*** more fun – to mix the corn flour and water with clean, bare hands.
   (Using coloured water is an option. Just keep in mind that stained hands and clothes and floors may become a concern.)
3. Continue adding water (and/or corn flour if needed) in small amounts until you get a mixture that has a consistency similar to honey. It may take a little work to get it just right the first few times. The nice thing about it is that you can't make a mistake.

Things to try!

1. When you have the mixture at the right consistency try pouring it from one bowl to another. Notice its unusual consistency as you pour it.
2. Stir it on the bowl with your fingers, first very slowly and then, as *fast* as you can. You may be surprised at what happens. Skim your fingers across the top of the glop. What do you notice?
3. Gather a handful of the glop and lift it out of the bowl. Roll the goo between your hands and make a ball. Hand the ball to someone and watch what happens to the ball.
4. Hold your hand flat over the pan palm-down and smack the liquid glop as hard as you can. Most helpers will duck for cover as you get ready to slap the liquid because they expect it will splash everywhere. Surprise! All of the glop stays in the pan… *hopefully*.