



## **Splashy Cup & Saucer Sets**

**Jessica Zhengjia Hu**  
**No. 72 Design Studio**

## INSPIRATION

The coffee splashes and spinning milky ripples caught my eyes as I poured milk into the coffee. Black coffee usually tastes strong and bitter, while milk is pure and smooth. When the two opposite liquids run into each other, the crown shape splashes and blended color ripples generate a beautiful symphony. As individuals, we can be different from each other. When we open our minds to communicate with others who have different thoughts, we may get amazing new ideas and inspirations in surprise.



## PROJECT DESCRIPTION

The project aims to reflect the beauty of liquid flows by capturing the moments when the collision on the surface creates irregular splashes in the shape of crowns and blended into the ripples. These fluid beauties are driven by the randomness of natural power. The smooth porcelain material fulfills the minimalist aesthetics. It provides senses of cleanness and ease.



These sets of cups and saucers can be used as multifunctional tableware. The cups can serve drinks, while the saucers can be used as dessert, pastry or fruit plates. The food looks like being soaked in fresh milk when it is placed in the middle of the saucer which has a unique splash shape with a ripple base. The smooth porcelain appearance provides a sense of cleanliness. These features increase people's appetite by making the food looks more attractive and hygienic. The saucers can be used as home decors as well.





## RESEARCH & CHALLENGES

In order to find the most suitable shapes for the splashes and drips, I used 3D software to study and simulate the dynamic movements of liquid. There were so many factors that could affect the condition of the splashes and drips, for example the density of liquid, the speed of flow, the impact area, the impact angle and so on. I had to run many dynamic tests with different variables to simulate the actual fluid conditions before I could finally come up with satisfying configuration for the products.



The biggest challenge of this project is defining the product shapes, especially for those irregular splashes, drips and ripples. The goal is to preserve the randomness of liquid states, so that the forms of splashes and drips will look more real and natural. In order to do so, I used 3D dynamic simulation software to simulate and modify the liquid flows. In this way, the products will look less artificial in terms of the fluid states.



The products were designed with 3D modeling software. 3D dynamic analysis was used to simulate the liquid flows as well as manipulate the forms and shapes of liquid splashes and drips.

Mockups were made by 3D printing. The final products are made of porcelain.



**THANK YOU**

**June 2022**