

# Dying with Washing Machine<sup>1</sup>

## Instructions

1. Tivara.github.io -> [dying manual](#), download spreadsheet.
  - 1.1. Enter the weight of your material, and set the following values in Cellulose Fibres (Jacquard)
  - 1.2. [Lemon Yellow](#): 60%, [Brilliant Orange](#): 35%, [Cobalt Blue](#): 5%<sup>2</sup>  
(Orange 33%, Blue 7% will get greener result)
2. Put the material into the washing machine - Super Quick - 15 mins - 30° with a drop washing liquid to wash out any grease and in the meantime
  - 2.1. Boil the salt in a pot of water<sup>3</sup>
  - 2.2. Weigh the dye out into cups
  - 2.3. Mix the dye in a jug and slowly add water while stirring, to form a paste to avoid lump of unmixed dye
  - 2.4. Add the boiled salty water in a bucket, add the paste to water until the solution is fully mixed
  - 2.5. Wait till the solution temperature drop around 50-60 degree<sup>4</sup>
  - 2.6. and start to boil more if needed
3. Set a 15 minute timer turn the machine water off<sup>5</sup>
  - 3.1. start the washing machine on the cottons setting (the aim is to let the machine spin the cloth when we pour the dye in)
  - 3.2. pour in the dye/water mixture, along with any extra water needed, until the machine stops giving an error message // beeping sound

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<sup>1</sup> The machine need to be able to restart without draining

<sup>2</sup> Jacquard dyes can be purchased online without import tax

<sup>3</sup> 600 grams per 1000 grams material (ignore the values suggested from spreadsheet)

<sup>4</sup> Higher temperature will give redder result and cooler will give greener result

<sup>5</sup> If it is cannot turn the water off, use 60 degree setting, after pour the dye in let the machine spin for 10+ minutes before pour sodium carbonate solution in and let it spin for 10+ minute

4. Weigh the Sodium Carbonate or Soda ash into a measuring jug, then use a whisk to mix it with hot water
5. When the 15 minute timer has finished, set another 15 minute timer, and restart the washing machine on the cottons setting again, and add the soda ash mixture (this process is to fix the dye)
6. Drain
7. 5 minute, superquick, cold water
8. Drain
9. 5 minute, superquick, cold water
10. Set the machine Delicates/silk or mixed load, with detergent to wash out all exceed dye
11. Hang the cloth in dry room, not in direct Sunlight<sup>6</sup>

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<sup>6</sup> Direct and strong sunlight can make the colour uneven