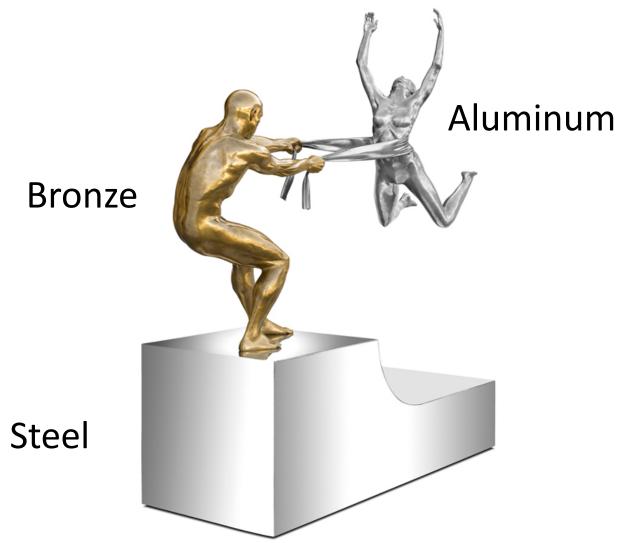
# Materials Selection for Sculptures



How do you choose the material for your design?

Depends on color, hardness, weight, cost, inside/outside use, and more!

Force of Love, Bronze, Aluminum, and Stainless Steel - Lorenzo Quinn

## Bronze (Copper + Tin)



- Able to get fine detail
- Medium cost
- Durable and strong
- Less likely to rust

### Also used for:



Cymbals



## Steel (Mostly Iron)

- Durable, strong, heavy
- Low cost
- Able to be hammered
- Will rust, needs to be protected

### Also used for:



Car parts





**Nails** 



Forks, Spoons, Knives

## Aluminum



- Light weight
- Very reflective/shiny
- Less strong
- Corrosion resistant

### Also used for:



Airplane parts



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Ladders

Bronze	Steel	Aluminum
<ul><li>Copper + Tin</li></ul>	Mostly iron	Light weight
<ul><li>Durable, strong</li></ul>	<ul> <li>Durable, strong, heavy</li> </ul>	<ul> <li>Very reflective</li> </ul>
<ul> <li>Common for casting</li> </ul>	<ul> <li>Malleable (can be</li> </ul>	<ul><li>Less strong</li></ul>
(pouring metal in a mold)	hammered without	<ul> <li>Corrosion resistant -</li> </ul>
<ul> <li>Medium cost</li> </ul>	cracking)	Naturally forms a
<ul> <li>Able to get fine detail –</li> </ul>	• Low cost	protective oxide layer to
expands slightly when	<ul> <li>Able to create detailed</li> </ul>	resist environmental
solidifying in mold	designs	attack
<ul><li>Less likely to rust</li></ul>	<ul> <li>Available in many shapes</li> </ul>	<ul> <li>Can be difficult to join</li> </ul>
<ul> <li>Can use surface finishes</li> </ul>	<ul> <li>Rusts easily, needs to be</li> </ul>	pieces
to change the color,	protected	
reflectivity, or protect the	<ul> <li>Small pieces can be joined</li> </ul>	
sculpture	together easily	
	<ul> <li>Good for outdoor</li> </ul>	
	sculptures	