

Technology push

Research and development is done by companies, often into innovative technology. It usually does not involve any market research. The company then markets the product.

Research and Development

New invention/product

Introduced to the public



Culture

Culture is the ideas, beliefs, customs & social behaviours of people. Designers have to be aware of the society & culture around them. Some areas of the world are dominated by one culture. This may be seen easier to design for as there will be less diversity however they will only be able to sell a more limited range of products. In the UK. especially in some cities, there is a very diverse mix of cultures. Making products to sell in these markets can be difficult too. You have to consider how to make them an inclusive design.



There is a need/requirement that comes from consumers (market place). This puts pressure on manufacturers to fulfill that need and create new or updated products/services. Look at how many products the smartphone has replaced.

Market research

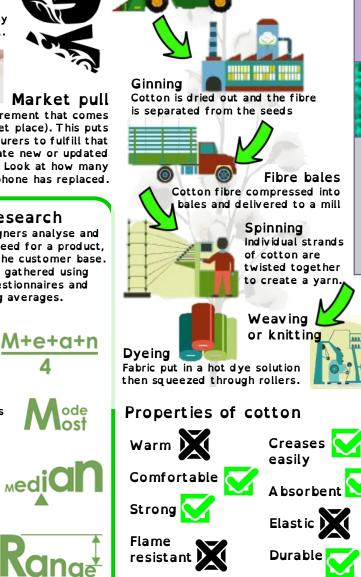
Research helps designers analyse and identify the market need for a product, the competition and the customer base. Information can be gathered using interviews and questionnaires and analysed using averages.

Add the numbers together and divide by the total number of numbers.

The value that occurs the most often.

Place a set of numbers in order, the median is the middle MC one.

The amount between the upper and lower limit.



Cotton From fibre to fabric

| on to fabric | Woven textiles | | Knitted textiles | Non woven or bonded |
|---|---|--|---|--|
| Harvesting Fibres inside cotton bolls are stripped | Fabrics made from interlocking yarns that run from top to bottom (warp) and right to left (weft). Made on a loom. | | Made from a single interlocking yarn. Construction allows fabric to stretch | Brushed or compressed fibres. Bonded or fused together with chemicals or heat. |
| ut and the fibre | | | | |
| Fibre bales re compressed into delivered to a mill Spinning Individual strands of cotton are twisted together | frays w most c weave, of we avai | vearing, then cut, common variety eights lable, thable | Stretchy and absorbent, unravels easily, thermal properties, loses shape easily without elastane (lycra), prone to shrinking | Non-elastic, does not fray, easy to shape and mould, additional properties such as waterproof or sterile, lacks strength |
| to create a yarn. Weaving or knitting dye solution bugh rollers. | | Inks char | chromic inks nge colour when exp on roads, clothing, ca | osed to liquid. Can ars and more. |
| f cotton Creases easily | rials | | | |
| Absorbent | materials | | encapsulation pigments | |

Microscopic bubbles, within the fabric, hold aroma. This is released when agitated. It loses its effect after several uses. Good for active wear and socks.

design technology: intelligent design using appropriate technology to make better solutions

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