Fabric Facts

What you need to know about the material world

risp, dry linen. Rich, buttery four-ply silk. Toothy, complex wool tweed. The fresh bouquet of a floral-print cotton lawn. What do they have in common? Not a lot—except each one is delicious, and fabric connoisseurs love them all. So, how do sewers choose the right fabrics for particular projects? In part, by using a fabric's makeup as a guide.

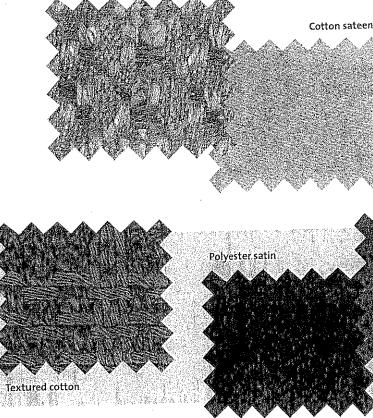
One way that you can best match a fabric to a project is by assessing its qualities. Luckily, the analysis of textiles doesn't have to be altogether technical. Handle the fabric, compare it to others you like or dislike, and consider its color, texture, and weight. Find

Tweed with metallic thread

out what it's made of, and how it's made. And remember that no matter how much you love a certain fabric, it's important to be realistic about whether it's appropriate for the garment you plan to make.

However, if you encounter a truly irresistible fabric that doesn't fit your immediate needs, buy a little anyway. Let it age a while as you challenge yourself to come up with the perfect design for your precious find. There's room for all sorts of fabrics in every wardrobe—if you know how to use them.

Adapted from Threads article "What Makes a Fabric" by Carol Fresia (no. 138).



The Truth About Textiles

iu may be unwaveringly loyal to natural-fiber fabrics—and ith good reason. They're comfortable, easy to sew, and oduce reliably attractive garments. Although these fabrics we been around for millennia, they always have an of-theoment look.

lant-Based Fibers

ese include cotton, linen, hemp, and ramie. They are strong, whether et or dry, take dye well, and press nicely; however, they also soil and inkle easily. Insects won't gnaw at them, but they are susceptible mildew. They're dense fibers (try lifting a bin of quilting cotton), ad while they're absorbent, they don't wick moisture or dry all at quickly—which is why cotton feels damp when you engage in renuous activity.

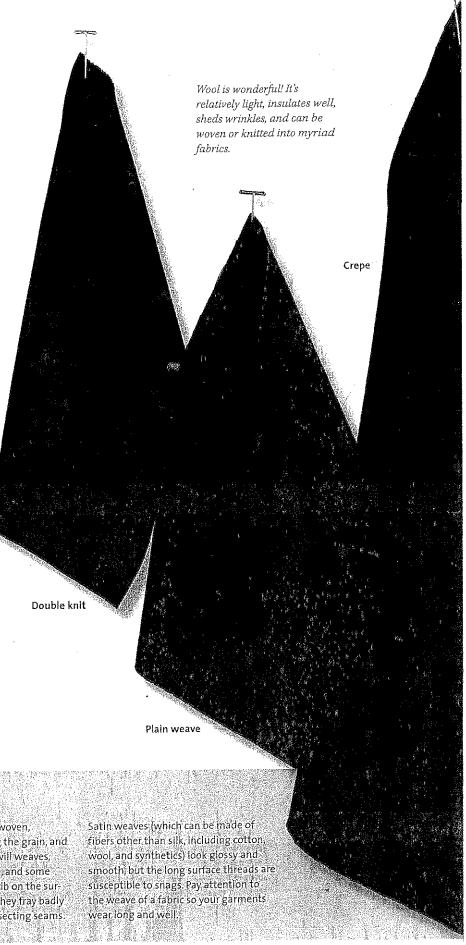
\nimal-Based Fibers

nese include silk, wool, and hair fibers such as angora, mohair, i's hair, cashmere, and alpaca. They tend to be light in ...ght, insulating, and able to absorb moisture without

eling soggy. They are elastic, resist wrinkling, and take dye ell; however, certain insects love them. Chlorine bleach, rong detergents, hot water, and agitation can damage these pers; dry-cleaning is often recommended, but sometimes and washing is better.

The Skinny on Synthetics

onthetic fabrics have come a long way over the years. Thanks to ew fiber structures, fabric coatings, and more, man-made textiles e easy to care for and comfortable to wear. Their benefits include streme elasticity and recovery, soil and water resistance, moisture icking, durability, colorfastness, and excellent insulating properties.



ake It or Weave It

Ifferent weaves behave differently. Then choosing a weave to sew with, one that plain, twill, and satin weaves I have pros and cons. Plain weaves in the lengthwise and crosswise.

are woven in a simple over-under, attern (muslin is a good example) are: smooth and often finely woven, but they tear easily along the grain, and are prone to wrinkling. Twill weaves, such as denim, gabardine, and some tweeds, have a diagonal rib on the surface. They're strong, but they fray badly and can be bulky at intersecting seams:



Mindful Fabric Selection

ou can study the fiber and structure of fabric to get an idea of how it might ehave now and over time, but to truly nderstand it, you need to know how nese elements interact to create the articular qualities of your yardage.

or a successful pairing of fabric to design, onsider characteristics such as stabily versus stretch; weight and density; bsorbency; opacity versus sheerness; rape; hand; surface texture; and olor, pattern, or print.

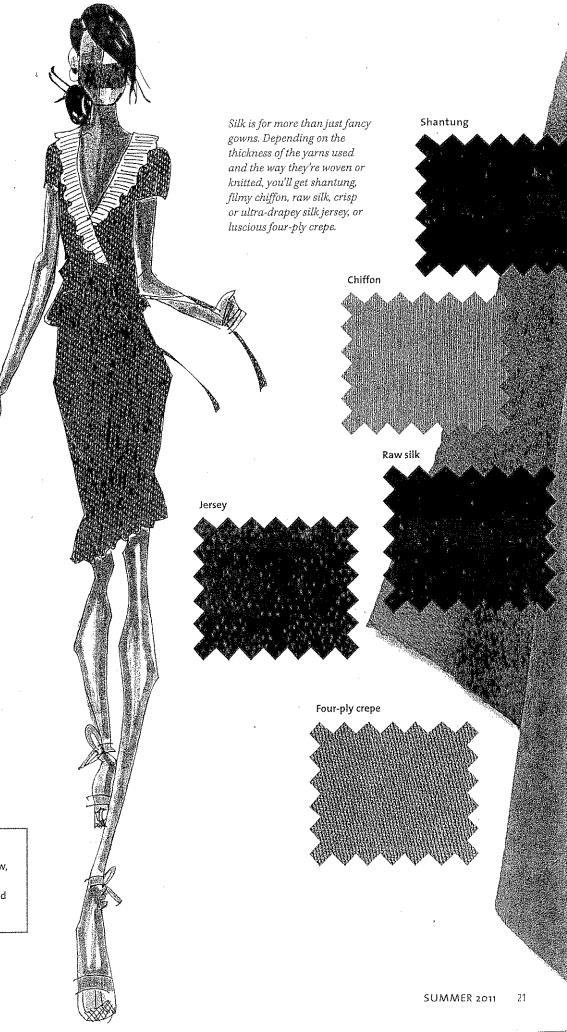
Even the rankest amateur knows nat denim doesn't make a good -shirt and that cotton jersey won't

form well as a pair of trousers. It's easy,

gh, to be seduced by a gorgeous color or attern and end up with a see-through dress rablouse that can stand up on its own. Be ealistic when you choose fabric for a project, nd you're much less likely to be disappointed by the resulting garment.

A resourceful sewer with some experience nder her belt realizes that the inherent proprities of some fabrics can be altered: Interfacing, lining and underlining, quilting, pleating, nd even more complex manipulations can ransform a fabric. It's possible to add body, veight, and stability to flimsy yardage, and a un through the washing machine and dryer an soften stiff material. If you're determined nd creative, you can persuade fabrics to work nunexpected and wonderful ways.

Whatever fabric you choose, always treat it before you sew, using the cleaning method that you'll use for the finished garment.



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ISW	er the following questions based on the Fabric Facts article.
1.	Why is it important to pick the right fabric for particular sewing projects?
2.	How do you know if the fabric is appropriate for the garment you wish to make?
3.	What are the benefits to natural fabrics? List three examples of a plant based fiber.
4.	What is an animal based fabric? List three examples.
5.	What are synthetic fabrics? List three examples.
6.	What is the difference between the fiber content of a fabric and the fabrics weave and structure? Why is this important?
7.	Compare and contrast wovens, knits, and nonwoven fabrics?
Q	Whatever fabric you choose you must always before you sew. Use