Threaded Fasteners for Computer Science
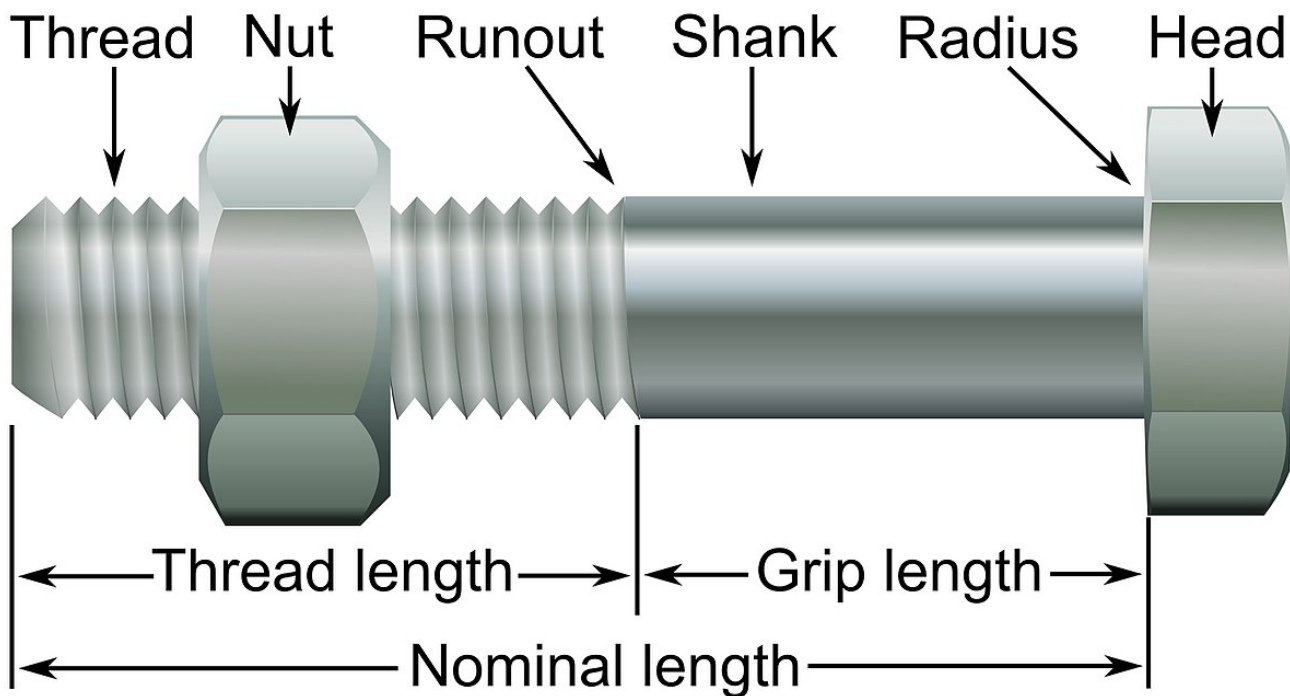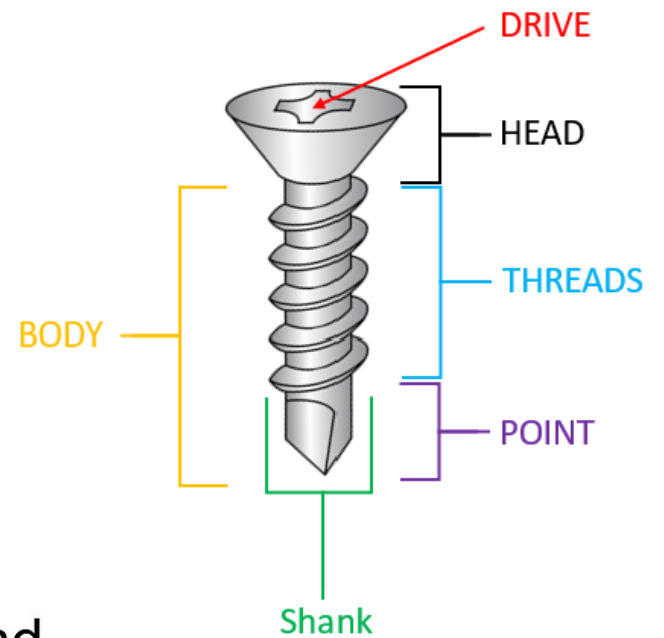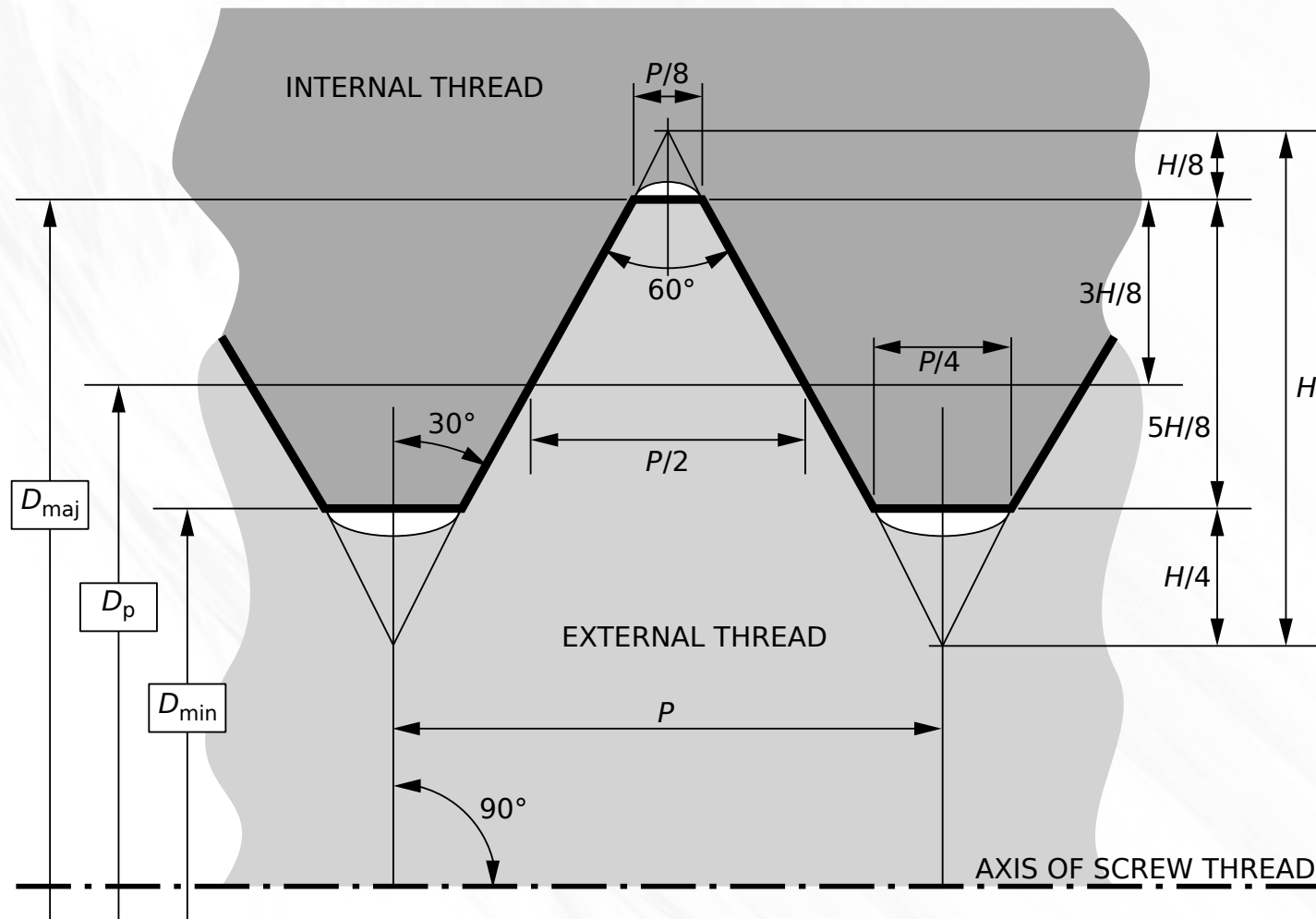
The first and last presentation you'll ever need on the topic

General character

DRIVE

HEAD

THREADS

BODY

POINT

Shank

Thread   Nut   Runout   Shank   Radius   Head

Thread length   Grip length

Nominal length

General character, part 2

Unified Thread Standard

- ASME/ANSI B1.2-1983

- Above #12, notated in inches

#6-32 x 1/2"

Metric/ISO

- ISO 261 and a preferred subset in ISO 262

M8-1.25×30

Notable examples

- #6-32 – 3.5" HDDs, Case panels

- M3-0.5 – 2.5" SSD/HDD, 5.25" ODDs, 3.5" FDDs

- M2-0.4 – NGFF aka M.2 aka mini

- #4-40 – DVI, VGA, D-sub family

Epilogue

I'd just like to interject for a moment. What you're refering to as Philips head, is in fact, Philips drive, or as I've recently taken to calling it, Ansi Type I Cross Recess. Philips drive is not a complete material specification unto itself, but rather another component of a fully defined threaded fastener description made useful by the head type, thread dimensions, and surface coating comprising a full material specification as defined by ANSI.1