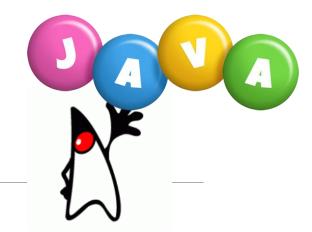
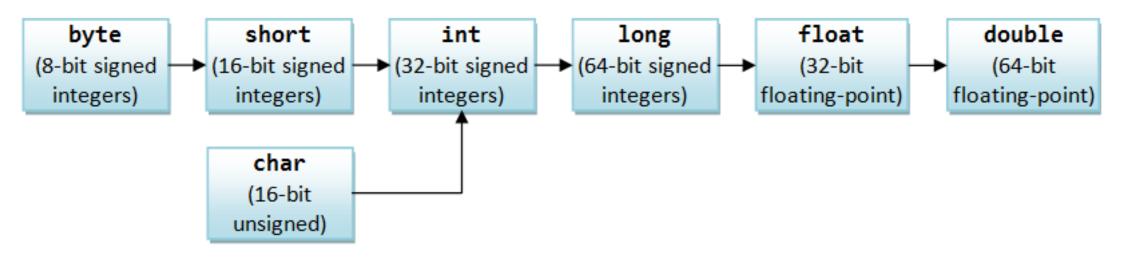
## Java for Beginners

PRIMITIVE DATA TYPES ERIC Y. CHOU, PH.D.

IEEE SENIOR MEMBER

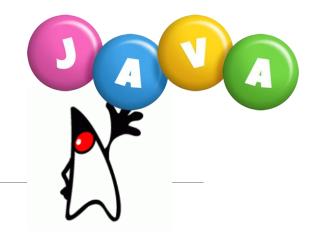
## 7 Primitive Data Types





Orders of Implicit Type-Casting for Primitives





Name	Data	Range	Default Value	Size
byte	signed integer	[-128, 127]	0	8 bits
short	signed integer	[-32768, 32767]	0	16 bits
int	signed integer	[-2147483648, 2147483647]	0	32 bits
long	signed integer	[-9223372036854775808, 9223372036854775807]	0	64 bits
float	floating-point	MIN: ±1.4E-45 MAX: ±3.4028235E+38	0.0	32 bits
double	floating-point	MIN: ±4.9E-324 MAX: ±1.7976931348623157E+308	0.0	64 bits
char	Unicode	['\u00000', '\uFFFF']	\u00000'	16 bits
boolean	logical value	{false, true}	false	≥1 bit