

## **References Allow a Choice of Argument Semantics** Finally, to call the functions... compareXchgPtr (&a, &one, &two); versus compareXchgRef (a, one, two); Notice that references **allow** a **programmer** • to redefine argument semantics • on a per-argument basis: • some may be **call-by-value**, while others are **call-by-reference** (pointer). slide 22 ECE 220: Computer Systems & Programming © 2018 Steven S. Lumetta. All rights reserved. 22

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References are Easily Abused	
As Stroustrup says, <b>any language can be</b> <b>misused</b> . The <b>worst part</b> in my view: • one can <b>change argument style</b>	
(code that uses the function)!	
In other words,	
<ul> <li>some code may assume that an argument doesn't change.</li> </ul>	
• but someone "redefines" the function	
• so that it can change!	
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