



Meetup



Friendly Environment Policy



Berlin Code of Conduct



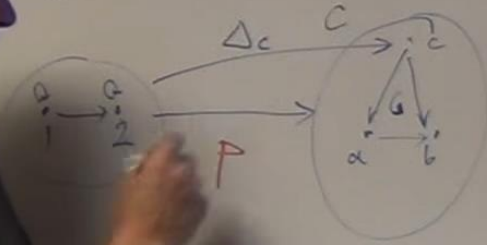
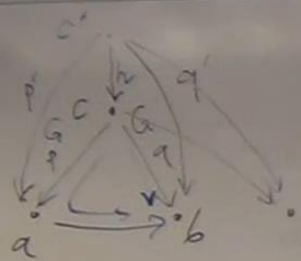
**CATEGORY THEORY  
FOR PROGRAMMERS**



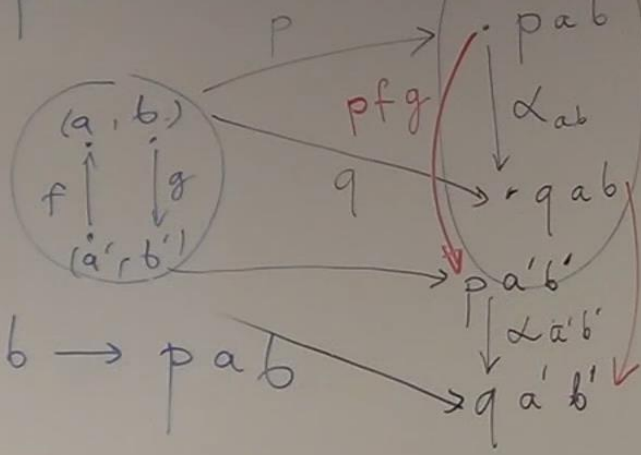
Bartosz Milewski

**Category  
Theory  
for  
Programmers**  
**Chapter 26:**  
**Ends and Coends**

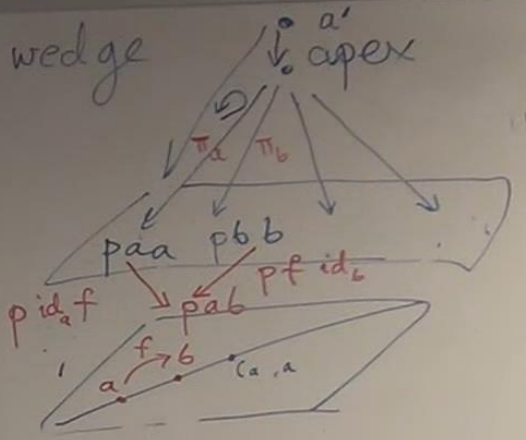
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profunctor  $a \bowtie b$   
 $\forall a. p(a)$   
 $C^{op} \times C \rightarrow \text{Set}$   
 type  $p \ a \ a = \text{forall } a. p \ a \ a$

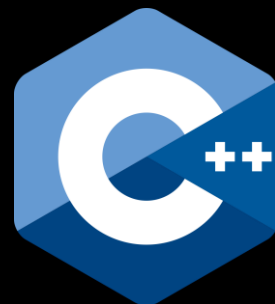


$p \ b \ b \rightarrow p \ a \ b$   
 $(f, id_b)$



$C^{op} \times C$   
 $p \ id \ f \circ \pi_a = p \ f \ id \circ \pi_b$





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