CPPOG

Casts w/spain

(> proposes two casts implicit a explicit - whreliable behavior *Type conversion: Hex: int a = 42; -> Implicit conversion coast (lost precision In some cases) double b = a; double c = (double) a > Explicet conversion cost -> Implicit promot (OK) double d = a; -> Implicit demotion (Hozerdeous zerrad - Implicit demotion (ok, dev's choice) flag to force and Parbil int e = d; int f = (int) d; Skeeps bits same like void * ... so float * > void * int * > completely diff no same bits * Type reinterpretation: through addresses there are hierarchy exc void to most general, promot demot implyed A be careful to use Explicit for Jernotions to signal intentionality 4) special case of a reinterpretation -> qualifier -> keyword const int s const int all fine constitto int sorty if explicit demotion not implicit * Type qualifiers: mostly used to accomposate library code we or whout comst * Upcast & Downcast (promotion & demotion withrelastes) New hierarchy of types & classes, ex: parents, grand parents more & more general child > parent all fine parent > child > only explicit, k would allow ost into wrong execute pls. ex int a 7 double b int d= state cast kint7(b); -> also can be used child-> parent-> child) - Static Cast: (most popular) an't make sure the right child is costed (2) can make sure it's related, will stop compilation. - Dynamic Cost: (happens at run time Yexer not compilate) adynamic costechilder(b); Can fail at execution so has to be handted and code can fail at execution so has to be handted and code can only work in a Polymorphic instance, to finbrate has to be virtual (1) can make sure the right child is easted can throw / catch std: bad cast &bo)