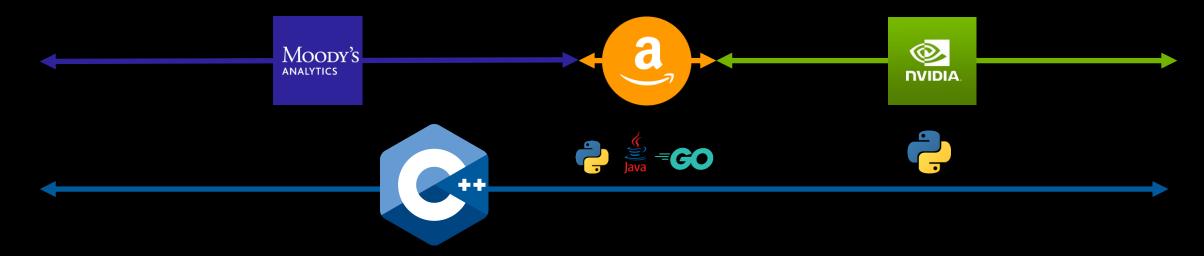
C++ vs Haskell vs BQN



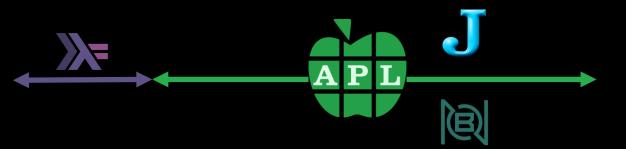
Conor Hoekstra







About Me Conor Hoekstra / @code_report







319 Videos

32 (20) Talks

Algorithms + Data Structures = Programs

',(": SCALE * fW), '" height="',(": SCALE * fH), ,(cnv sc _85),' ', (": fW,fH),'" preserveAspectF p://www.w3.org/2000/svg" xmlns:xlink="http://www.w + fW , fH) webdisplay htmpack tm NB. x is input p r i I~+cj+(+\m)-1 ◊ n+j I@(0≤+)n ◊ p[i]+j+i-1 $k[j]+-(k[r[j]]=0)\times0@({$\neg\phi\omega}]=p[j])+t[j]=1 \diamond t[j]+2$ $+\{\omega/\sim -2|_{1}\neq \omega\}_{1}$ t[p]=4]] \diamond t[i,x]+t[x,i] \diamond k[i,x]+k[$n[x]+n[i] \diamond p+((x,i)@(i,x)+t\neq p)[p]$ a list of symbols and a list of integers combined to form

RUN 🎉 **FOR THE** FUN 😃 OF IT!

133 Episodes @adspthepodcast



54 Episodes @arraycast



9 Episodes @conorhoekstra



https://github.com/codereport/Content

[1, 2, 3, 4, 5]

[1, 3, 5]



```
C++14 Function Deduced
Return Type
```

```
auto filter_odds(std::vector<int> nums) {
    auto odds = std::vector<int>{};
    for (auto const num : nums)
        if (num % 2 == 1)
        odds.push_back(num);
    return odds;
}
C++11 range-
based for
```



```
auto filter_odds(std::vector<int> nums) {
   auto odds = std::vector<int>{};
   std::copy_if(
        nums.begin(), nums.end(),
        std::back_inserter(odds),
        [](auto e) { return e % 2 == 1; });
   return odds;
}
```



```
auto filter_odds(std::vector<int> nums) {
   auto odds = std::vector<int>{};
   std::copy_if(
       nums.begin(), nums.end(),
       std::back_inserter(odds),
       [](auto e) { return e % 2 == 1; });
   return odds;
}
```



```
auto filter_odds(std::vector<int> nums) {
    auto odds = std::vector<int>{};
    std::ranges::copy_if(
        nums, std::back_inserter(odds),
        [](auto e) { return e % 2 == 1; });
    return odds;
}
```





filterOdd xs = filter (\e -> mod e 2 == 1) xs



filterOdd xs = filter odd xs



filterOdd = filter odd



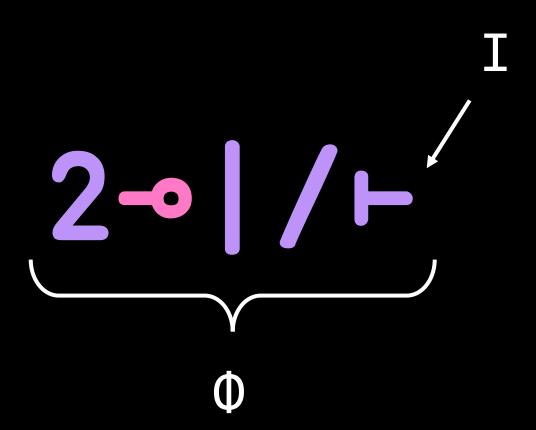
filter odd





{(2|x)/x}

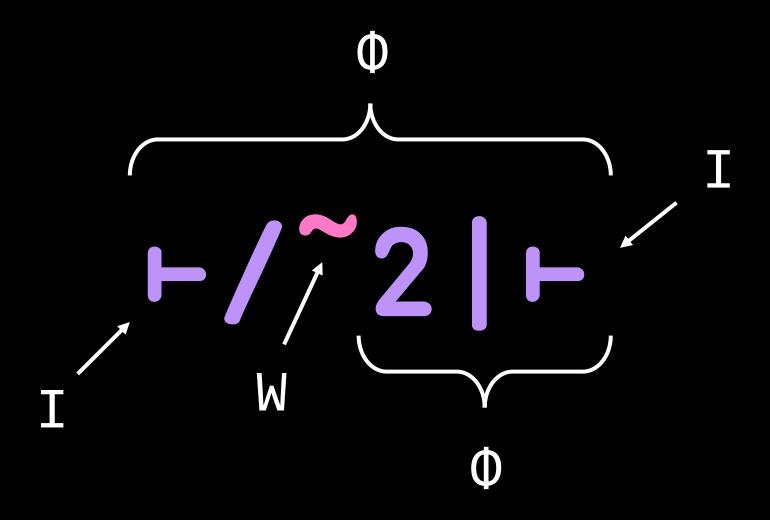




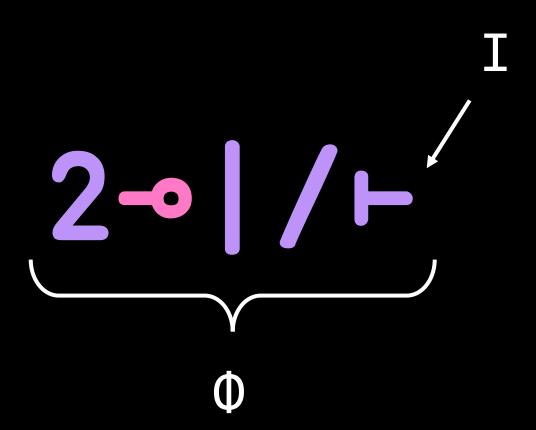


```
\{x^{2} | x\}
```

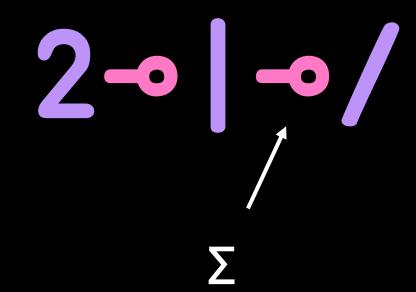












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Thank You

https://github.com/codereport/Content/Talks

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