

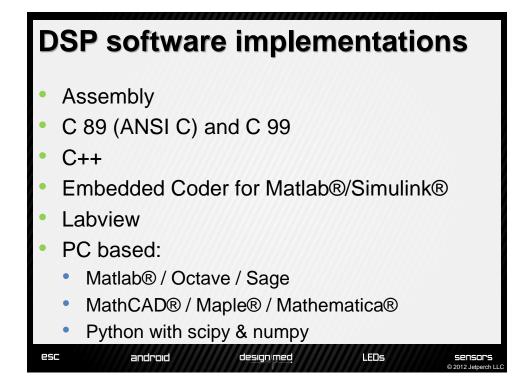
Agenda

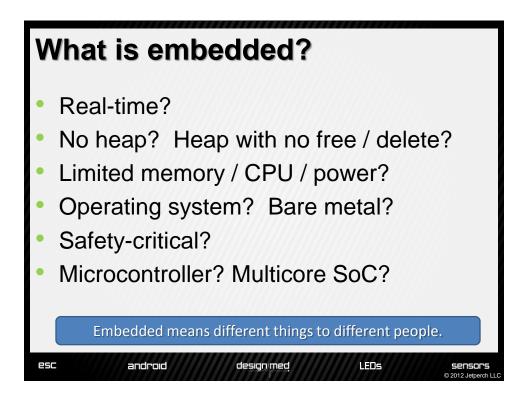
- C++ compare to what?
- Top 10

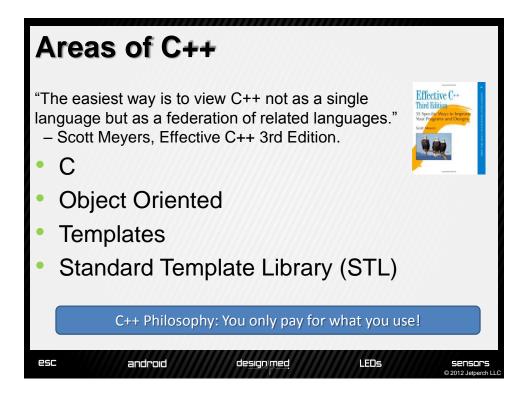
esc

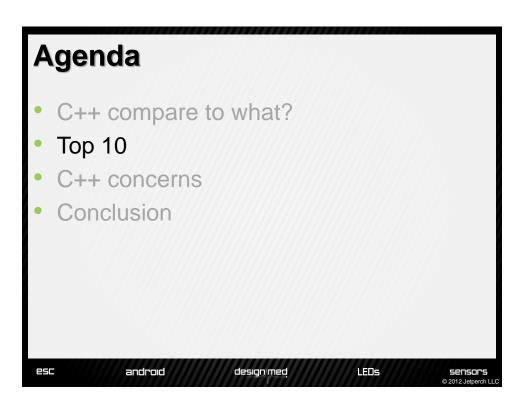
- C++ concerns
- Conclusion

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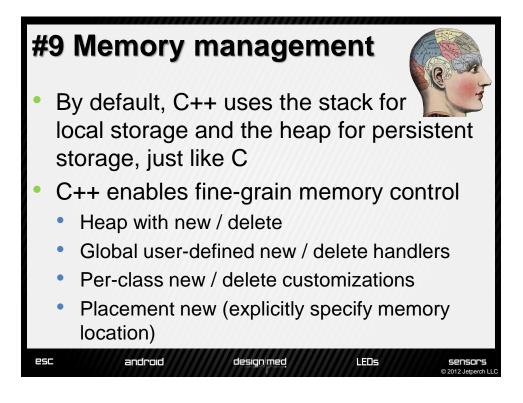


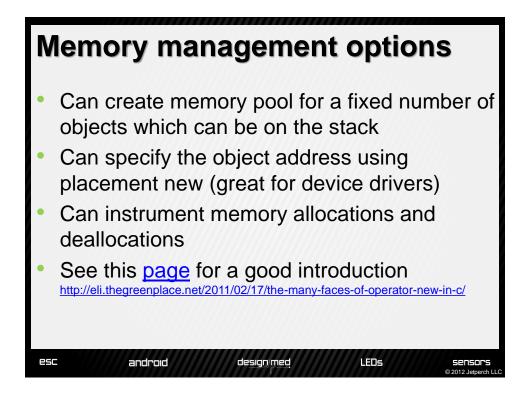


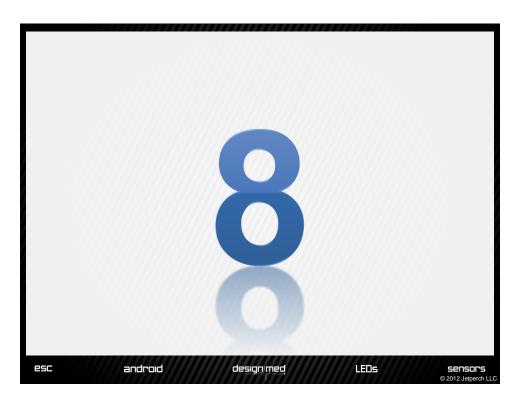


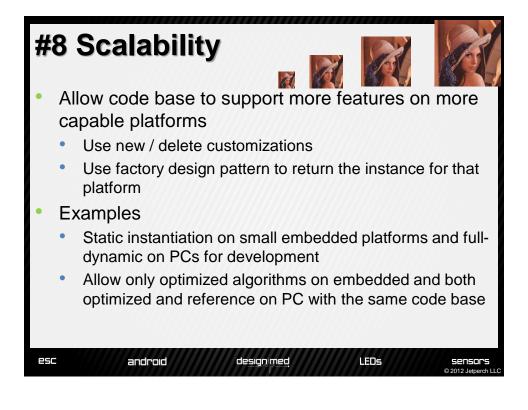
#10 Inlined Functions Instead of macros Offers full type checking of arguments No function call overhead Easier debugging by disabling inlining С C++ inline int addTwo(int a) { #define ADD_TWO(a) ((a) + 2) return a + 2; } Also available in C99 (such as gcc 4.2+) LEDs esc android design med sensors © 2012 Jetperch I

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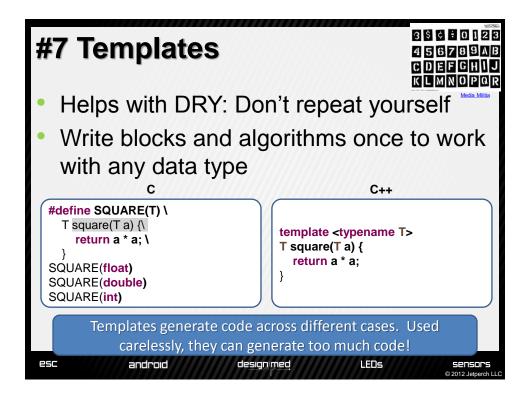




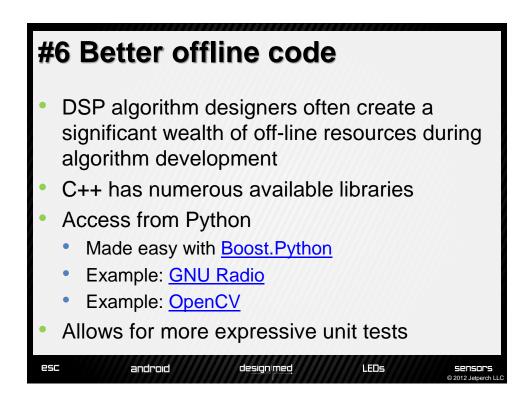
















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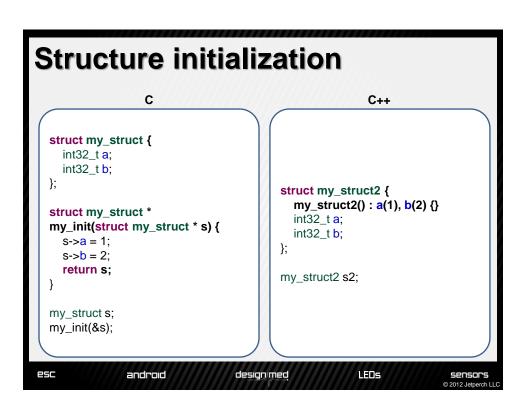
android

- Automatically initialize structures with variable declaration, no separate initialization call required
- Initialization step cannot be forgotten
- Really object oriented programming with a constructor and public members

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#4 Operator overloading

- Operator overloading allows the normal C operators to take on special meaning depending upon the type
- Examples:

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 Matrix math that looks like mathematical notation

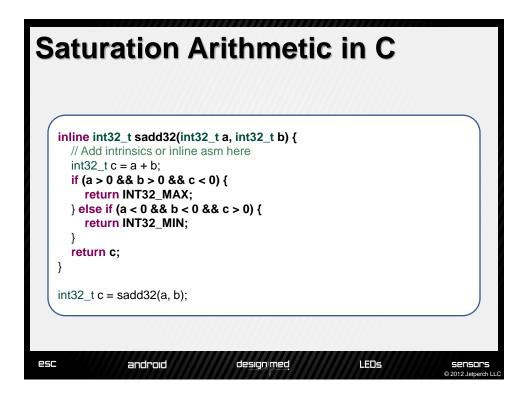
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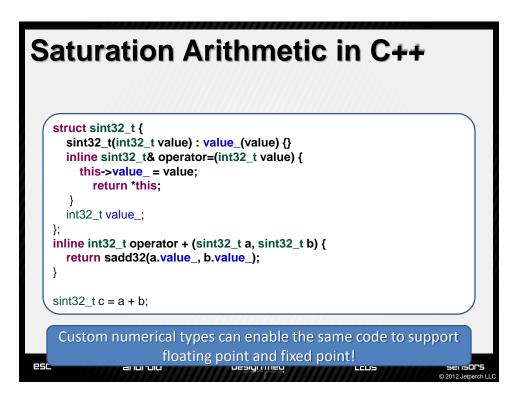
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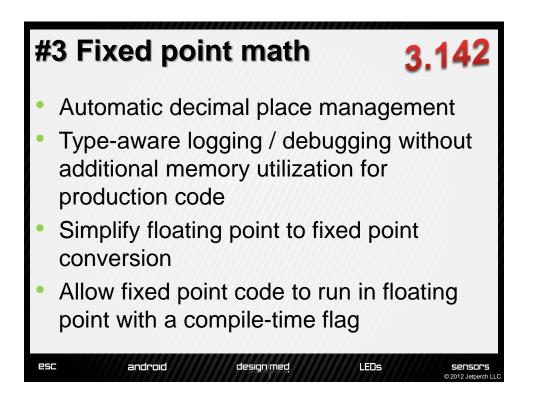
Saturation arithmetic

android

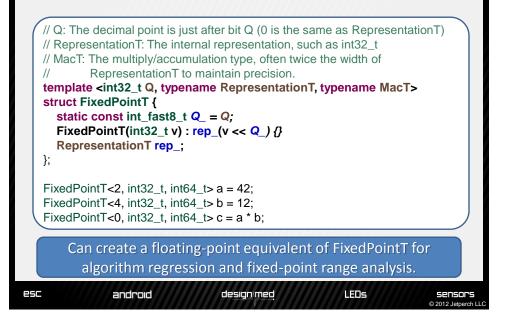




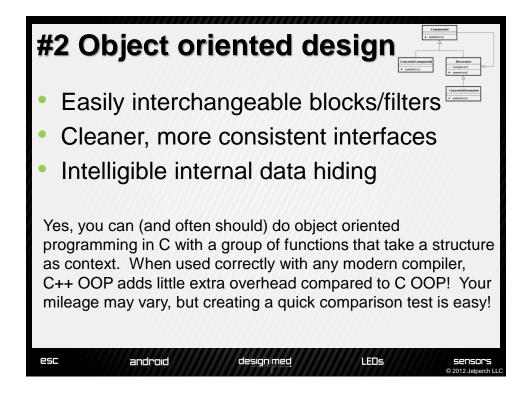


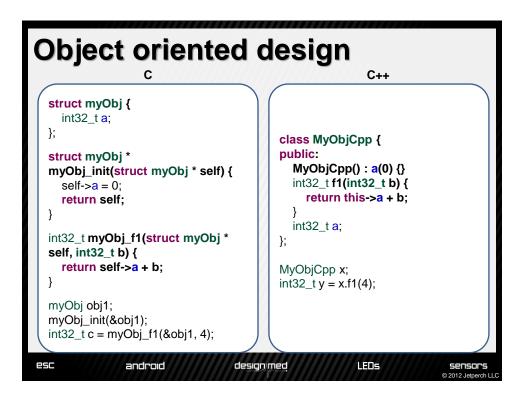


Fixed point math











#1 Higher level of abstraction C++ results in more maintainable source code compared to C Encapsulate boilerplate code Simplify the "application" language Improve ability to read, review and maintain Only pay for what you use Can still perform low-level memory management when needed

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