

# Information systems development methodology

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## GOAL:

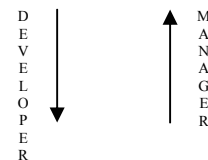
The methodology assures unintrusive and simple way of formation of development documentation with minimal extra time investment!

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## METHODOLOGY – SUMMARY:

Level 1: uniform programming style  
Level 2: versions management  
Level 3: developers help formation  
Level 4: use of XP method principles

reading direction



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## NOTE:

The methodology is concrete and consequently short and unambiguous. That is why it does not explain the terms used in this document.

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## LEVEL 1:

With uniform programming style we assure a very high level of readability:

1. Used tools:
  - MS Visual Studio 6.0 C++
  - VisualAssist plug-in
  - VAPlataforma code
  - Intel IPL and OpenCV libraries
2. Structure:
  - Subfunctional parts are appropriately enraptured (use of `tab`)
  - One row consists of only one program sentence
  - The sentence should be as short as possible; if it spans a lot over the width of the display then brake it in more parts
  - Divide names and operators with spaces
  - Methods should be as short as possible (divide into the smallest possible functional parts, put them in the same class)
  - Each class (`.cpp/.h`) put into a separate folder with class name
3. Naming convention:
  - Variables are presented with full names, consisting of only small letters and mark `_` between the words
  - If we are dealing with a constant then the name must start with `c_`
  - Methods and classes are also named with full names, but each word starts with capital letter and there are no `_` between the words
  - Always use the shortest possible full name
  - Dialog variables are named in the same manner, but additional information is in front of the name:
    - a. Default suggestion by Visual Studio: `m_` (member of)
    - b. Variable type: e.g. `m_b_` (for `BOOL`) or `m_cb_` (for `CButton`)
    - c. The name that is appended is the same as what you appended to default suggestion by Visual Studio for Control ID (without the number, but with `_`): e.g. `IDC_CHECK_animate` and `m_b_animate`
    - d. The appended names for all variables associated with the same Control ID are the same: `m_b_animate` and `m_cb_animate`
4. Language:
  - Names and comments are in English
5. Contract:
  - The contract (e.g. the comment above the method head/signature) should explain at least the return parameter and give the author
  - In `.h` (signature) file put each parameter in a separate row and if needed further explain its meaning; add the contract
  - This signature (with the contract) should be the same in `.cpp` file
  - The class (`.cpp/.h`) should start with the author(s) name(s)

6. Comments:

- After the signature give a basic pseudo code outline of the procedure using natural language
- In the code write comments only in parts that are harder to understand, i.e. that are more complex