

```
//===== Forward Euler (explicit)
#include "global.h"
void pde(const int W, double E[][W+1], double Fx[][W+1], double Fy[
[W+1]){
    // Energy is conserved within nodes only..
    for(int i = 1; i <= M; i++){
        for(int j = 1; j <= M; j++){
            E[i][j] = E[i][j] + (dt/dx)*(Fx[i-1][j] -
Fx[i][j]) + (dt/dy)*(Fy[i][j-1] - Fy[i][j]);
            // Ei + dt/dx(sum fluxes)
        }
    }
}
```