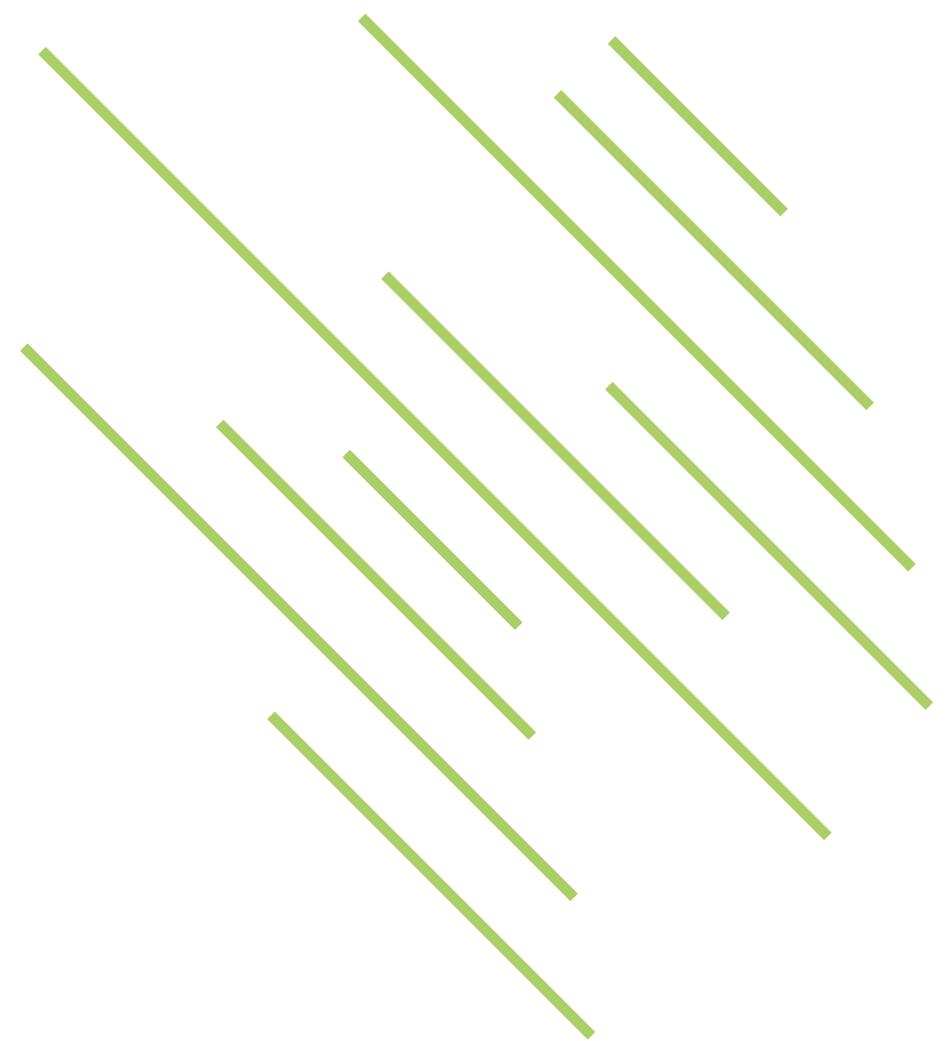


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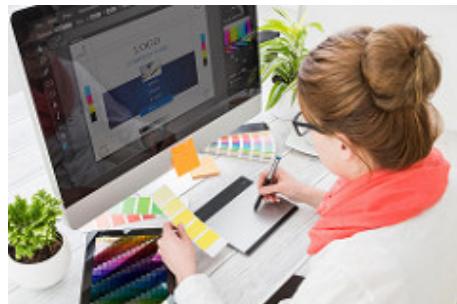
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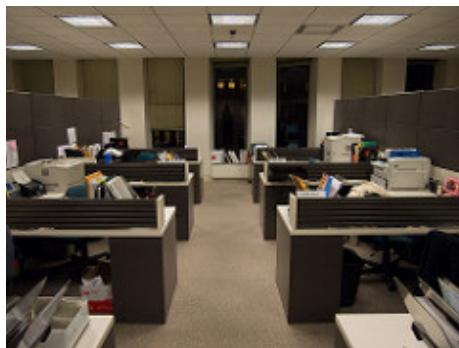
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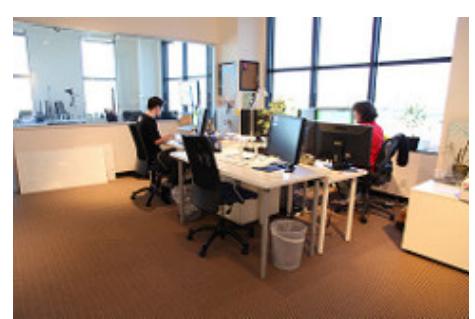
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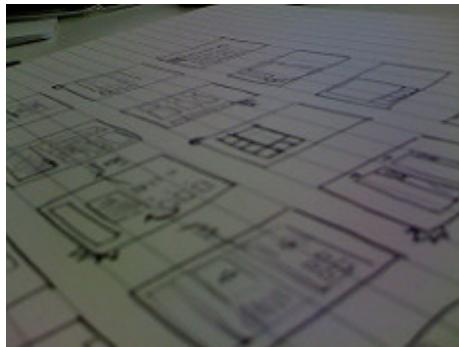
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Module 1 | Lesson 3 & 4



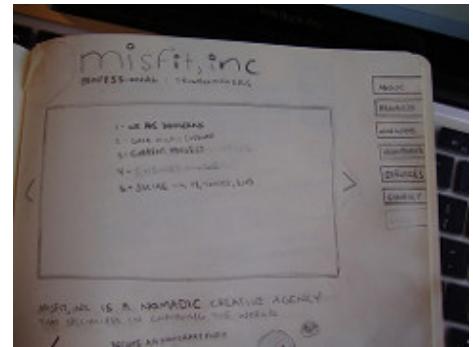
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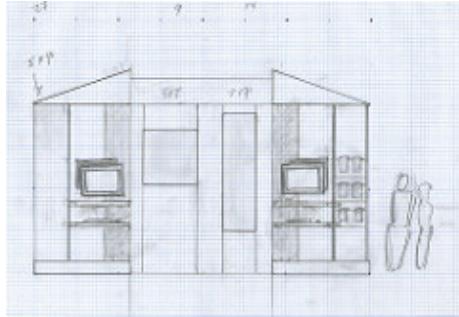
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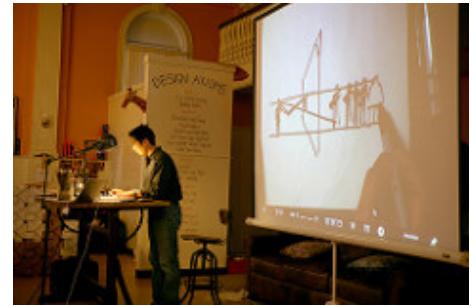
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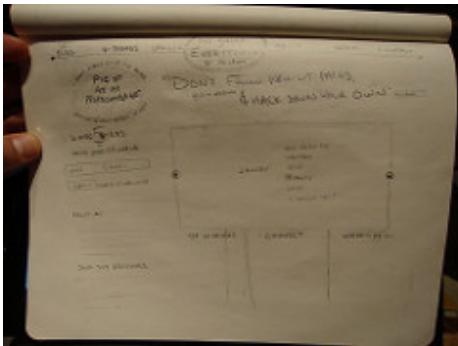
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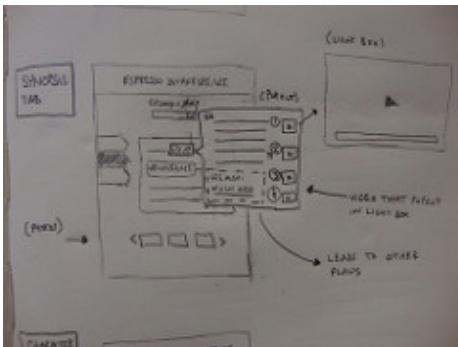
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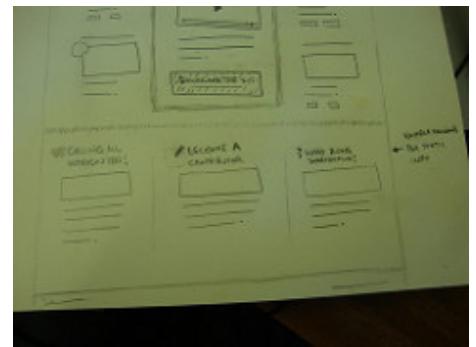
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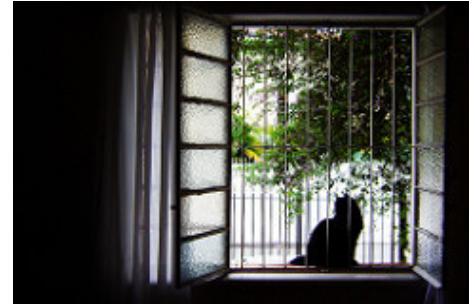
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Module 1 | Lesson 5 & 6



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Module 2 | Lesson 1 & 2



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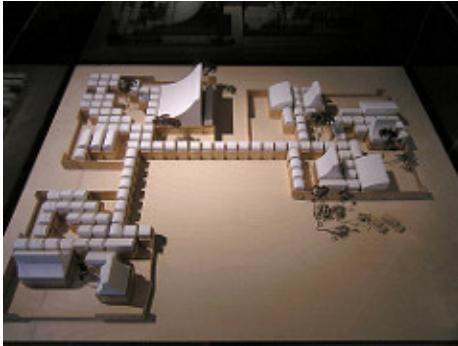
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$$\begin{aligned} P_{\text{failure}} &= \sum_{c=K+1}^{2N} P_{\text{up to } c \text{ successes}} = \frac{\sum_{c=K+1}^{2N} \text{number of permutations with } c \text{ up to } 2N \text{ successes}}{2^N} \\ &= \sum_{c=K+1}^{2N} \frac{\binom{2N}{c}}{2^N} \cdot \binom{2N-c}{c} = \sum_{c=K+1}^{2N} \frac{1}{2^c} = H_{2N} - H_K \approx \\ &\leq \int_{K+1}^{2N} \frac{1}{2^x} dx = \ln 2N - \ln K = \ln 2. \quad \square \end{aligned}$$

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```
using namespace sf;
class Player {
public:
    Player();
    Player(int i);
    RectangleShape getShape();
    float points = 1;
    const Joystick* joystick;
private:
    RectangleShape shape;
};
};

Player::Player(int i, *Joystick j) {
    Player(i);
    joystick = j;
    shape = RectangleShape(Vector2f(50,50));
    shape.setFillColor(Color(180+i*150), 200-(i*150));
    joystick = j;
}

Player::Player() {
    joystick = new Joystick();
    joystick->getAxis();
}

void Player::update() {
    if(joystick->isConnected()) {
        Vector2f axis = joystick->getAxis();
        if(axis.x < 0) {
            shape.move(-1, 0);
        }
        if(axis.x > 0) {
            shape.move(1, 0);
        }
        if(axis.y < 0) {
            shape.move(0, -1);
        }
        if(axis.y > 0) {
            shape.move(0, 1);
        }
    }
}
```

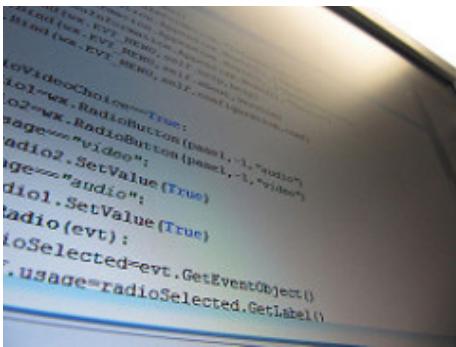
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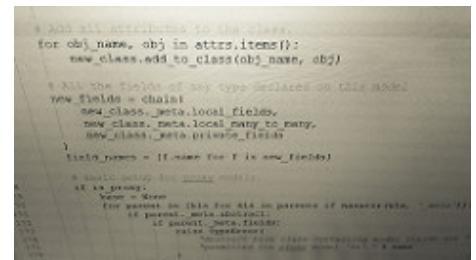
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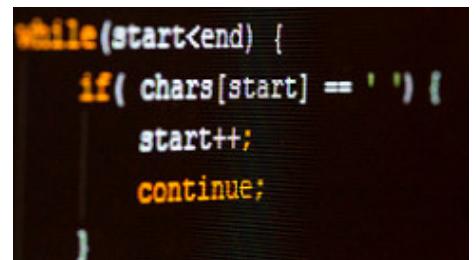
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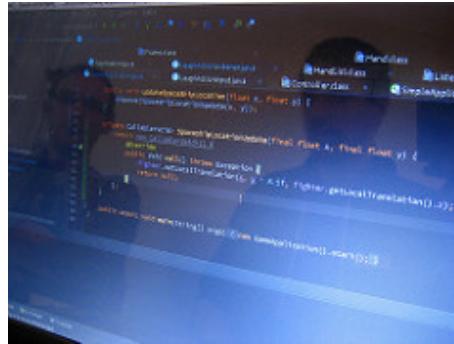
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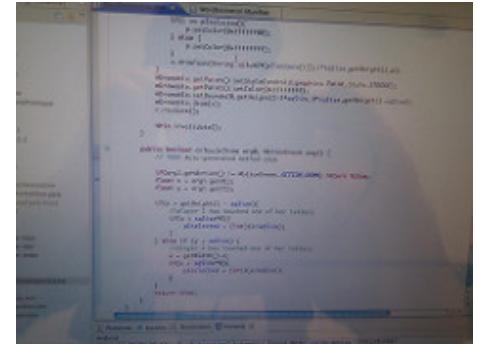
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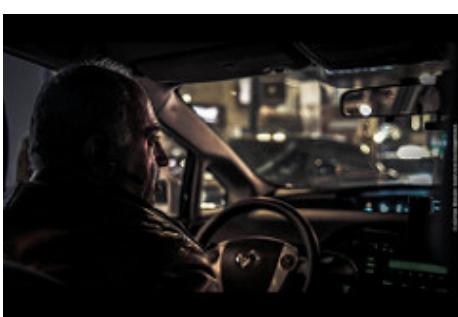
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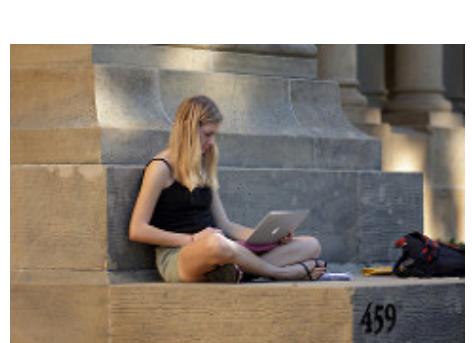
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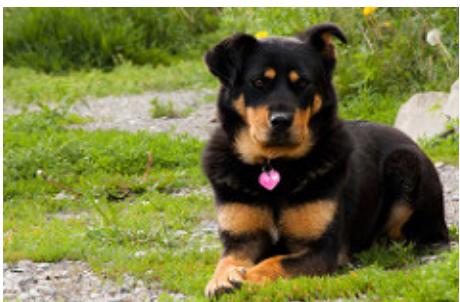
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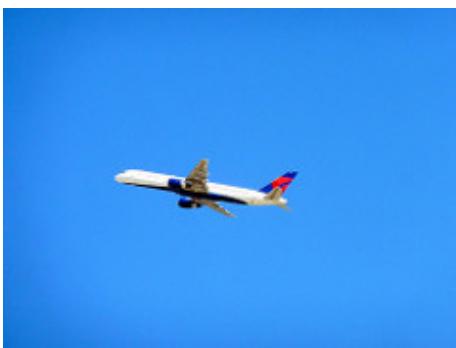
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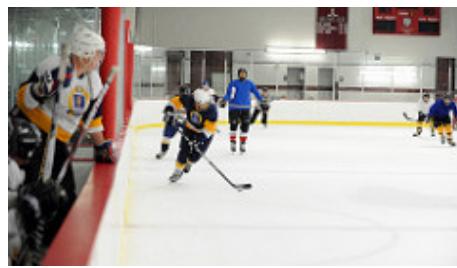
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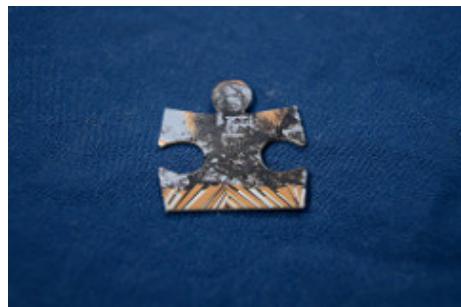
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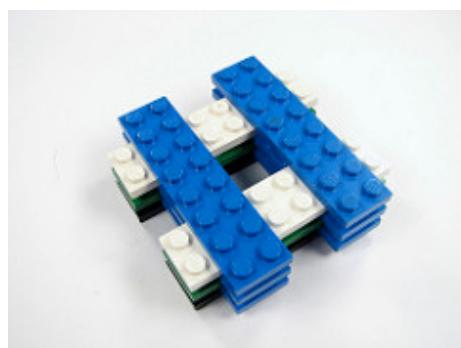
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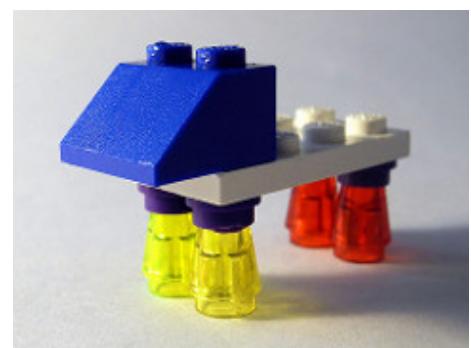
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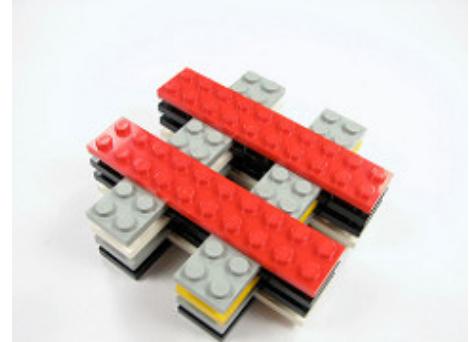
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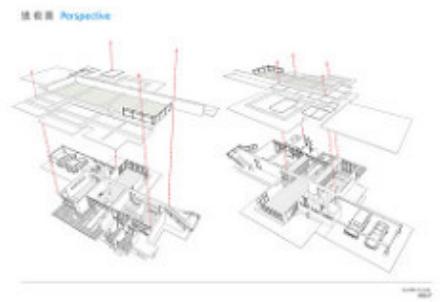
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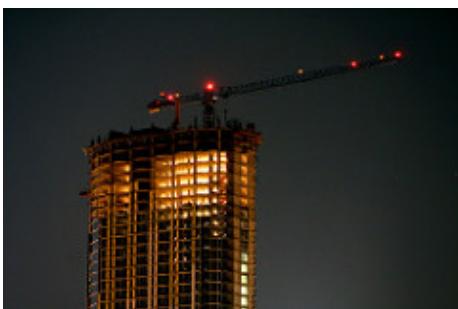
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