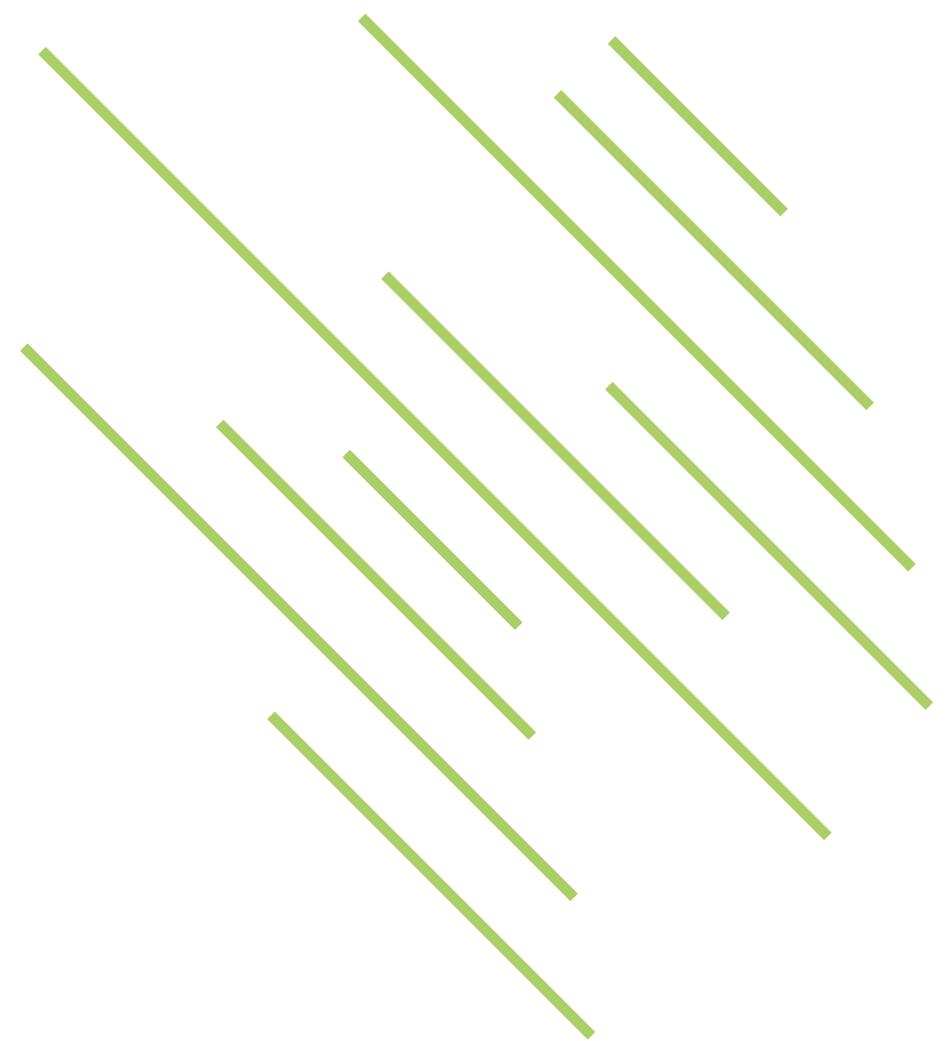


# Course 1

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## Image Credits



*Images are only listed once, by the order of their first appearance in the course.*

# Course 1

## Image Credits

Module 1 | Lesson 2



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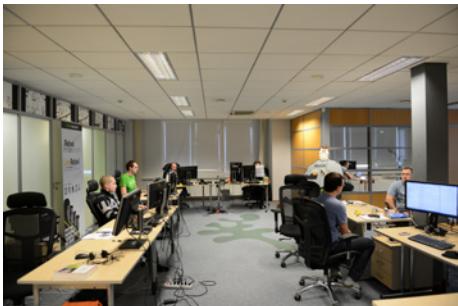
**"Anja and Mattias."** by twingly, used under CC BY 2.0. Image cropped, brightness/contrast and colour balance adjusted.

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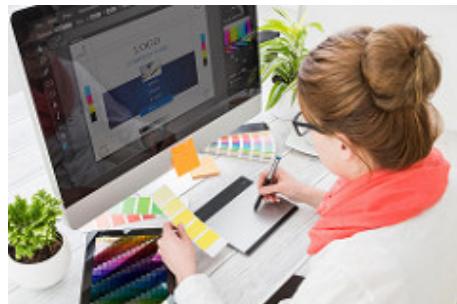
**"Open Humans Review."** by Juhan Sonin, used under CC BY 2.0. Image cropped, brightness/contrast and colour balance adjusted.

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## Image Credits

Module 1 | Lesson 3



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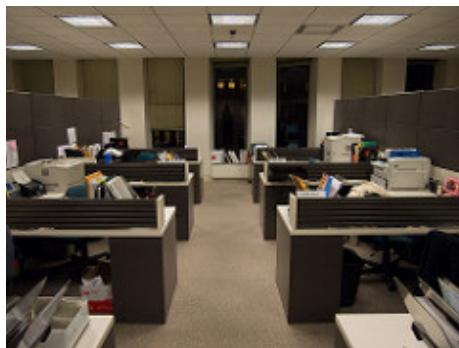
**"Dog."** by Neil Mullins, used under CC BY 2.0. Image cropped.

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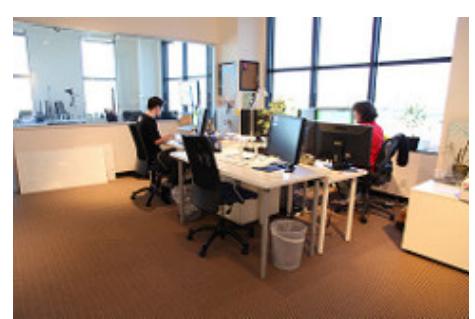
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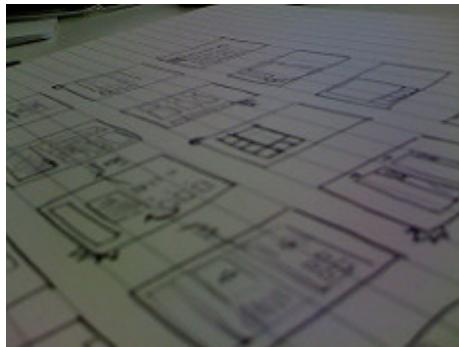
## Image Credits

Module 1 | Lesson 3 & 4



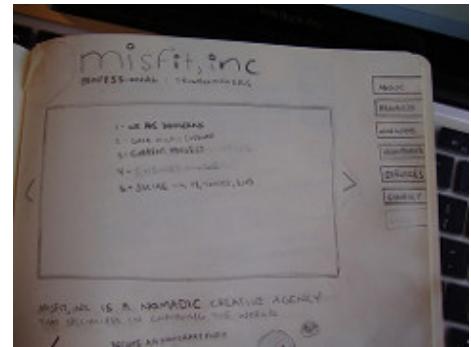
**"DSC\_0026."** by Jennifer Welch, used under CC BY 2.0. Image cropped and brightness/contrast adjusted.

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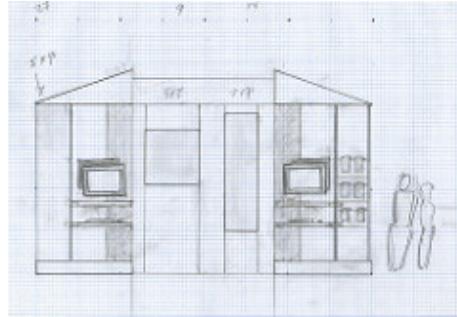
## Image Credits

Module 1 | Lesson 4



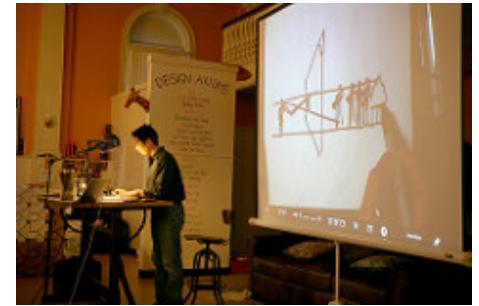
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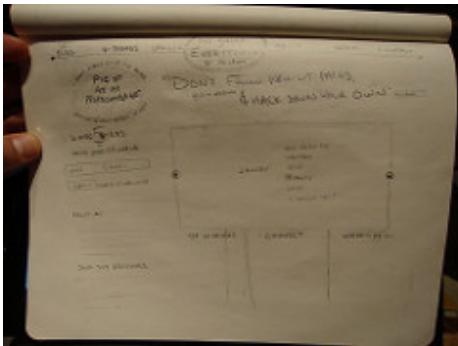
**"Elevation."** by Rachel Lyra Hospodar, used under CC BY 2.0. Image cropped.

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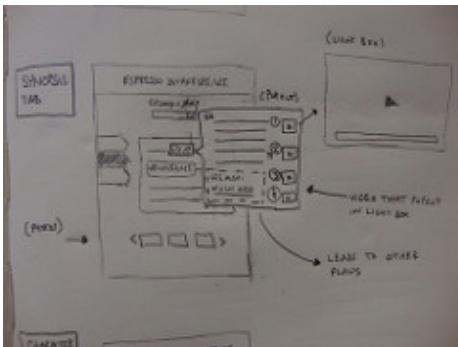
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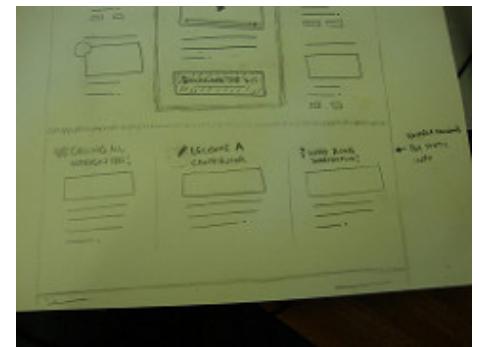
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# Course 1

## Image Credits

Module 1 | Lesson 5



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# Course 1

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Module 1 | Lesson 5 & 6



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# Course 1

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Module 1 | Lesson 6



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# Course 1

## Image Credits

Module 2 | Lesson 1 & 2



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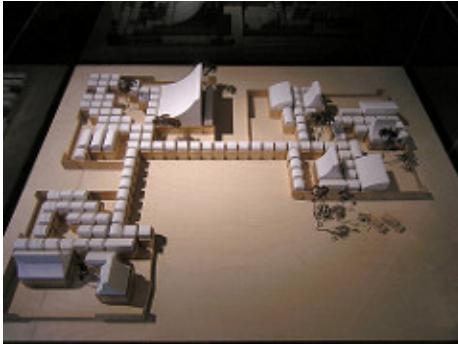
**"Rear balcony."** by Giles Douglas, used under CC BY 2.0. Image cropped, brightness/contrast adjusted.

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**"Housing renovations continue at Incirlik."** by U.S. Army Corps of Engineers, used under CC BY 2.0. Image cropped, brightness/contrast adjusted.

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

$P_{\text{success}} = 1 - P_{\text{failure}} \geq 1 - \ln 2 \approx 0.30 \quad \square$

**"Some Math."** by Behdad Esfahbod, used under CC BY 2.0. Image cropped.

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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), 250-(i*150)));
    joystick = j;
}

Player::Player() {
    joystick = new Joystick();
    shape = RectangleShape(Vector2f(50,50));
    shape.setFillColor(Color(180+(i*150), 250-(i*150)));
    joystick = j;
}

void Player::getShape() {
    return shape;
}
```

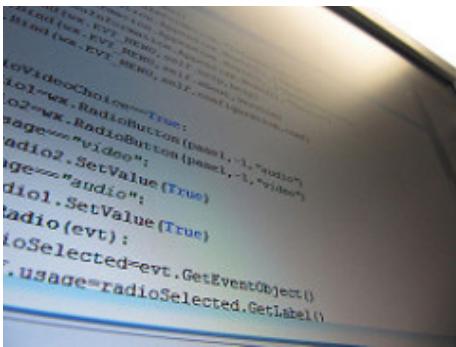
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## Image Credits

Module 2 | Lesson 2



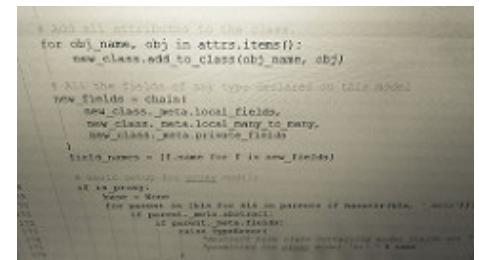
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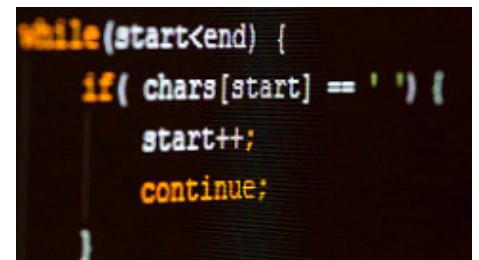
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# Course 1

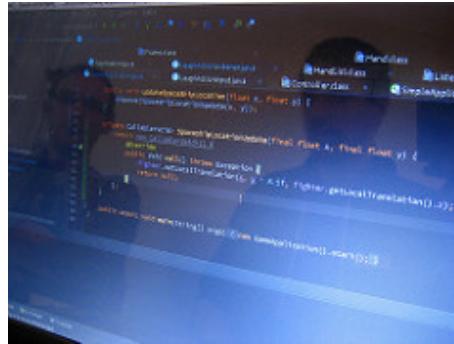
## Image Credits

Module 2 | Lesson 2 & 3



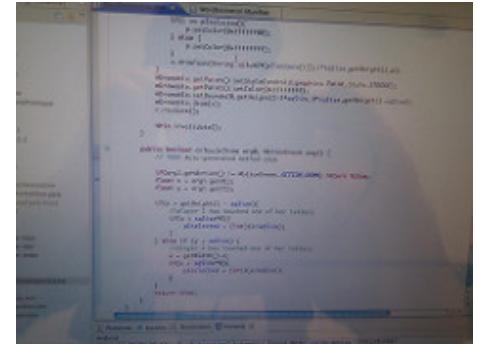
**"Code."** by Michael Himbeault, used under CC BY 2.0. Image cropped.

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# Course 1

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Module 2 | Lesson 3



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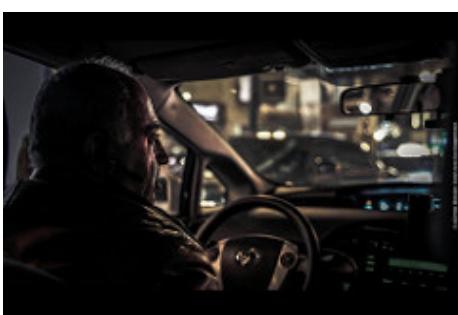
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# Course 1

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Module 2 | Lesson 3



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Module 2 | Lesson 3



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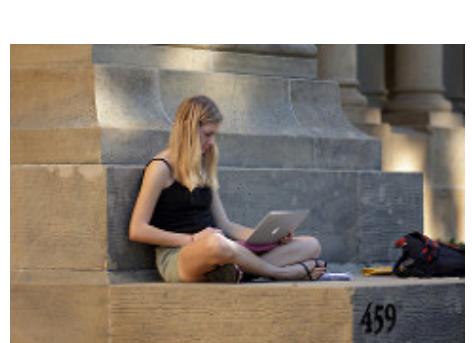
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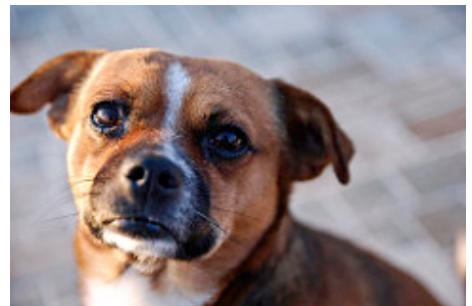
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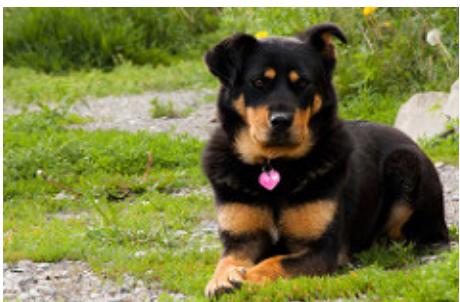
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Module 2 | Lesson 3 & 4



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Module 2 | Lesson 5



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Module 2 | Lesson 5 & 7



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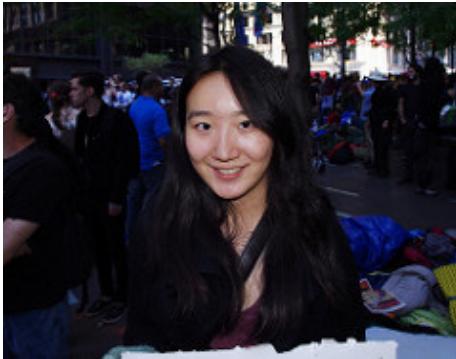
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Module 2 | Lesson 9



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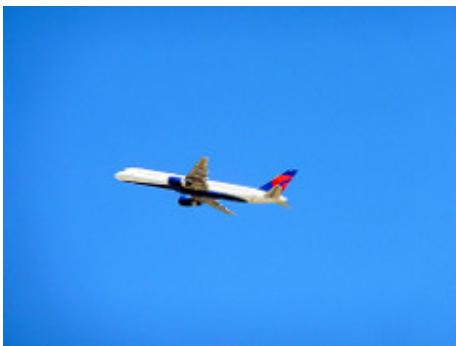
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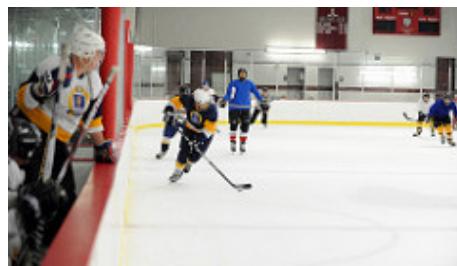
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Module 2 | Lesson 9



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Module 2 | Lesson 11



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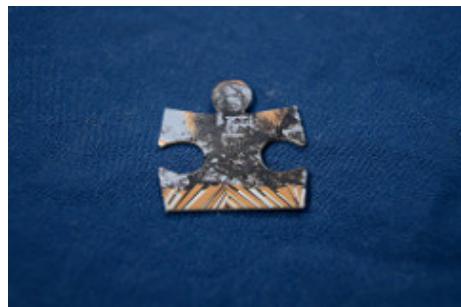
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Module 3 | Lesson 1



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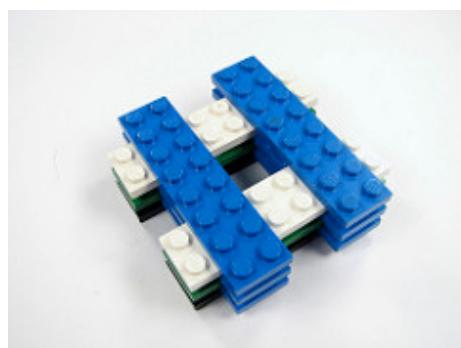
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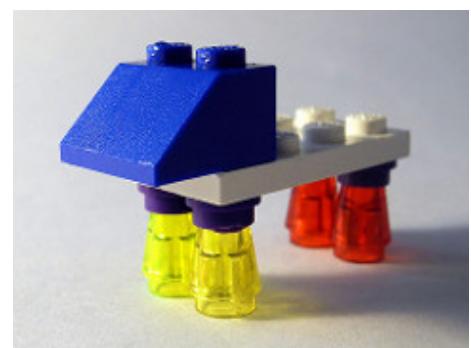
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Module 3 | Lesson 1 & 2



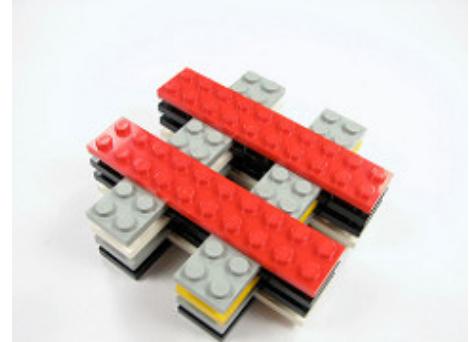
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Module 3 | Lesson 2 & 4



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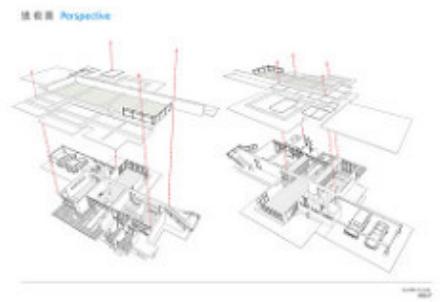
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Module 3 | Lesson 4 & 5



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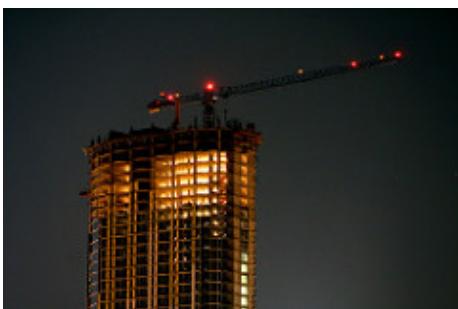
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# Course 1

## Image Credits

Module 3 | Lesson 5-7



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**"Wecker."** by Anka Albrecht, used under CC BY 2.0. Image cropped and extended on the right side.

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# Course 1

## Image Credits

Module 3 | Lesson 8



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