

## Useful Links

About Microsoft Imagine Website

<https://imagine.microsoft.com/en-us>

Tutorials to practise with

<https://imagine.microsoft.com/en-us/code>

Put your practise into real world sessions by registering for free to  
the Imagine Cup challenges

<https://compete.imagine.microsoft.com/en-us/>

More detail in the Imagine Cup booklet and material

Microsoft Imagine



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Your number one stop

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For Microsoft eLearning and  
e resources @

[https://imagine.microsoft.com/  
en-us](https://imagine.microsoft.com/en-us)



# Videos and Tools

Imagine X About Create Downloads Contests Blog

## Binary Break-In

### Learn to create things step by step with videos and text

Make it better, make it yours!

Ideas to try...

- Make the code display in binary, and require decimal text input to open the safe instead
  - Build a string of 1s and 0s from the generated decimal number.
  - Create field to receive text input from player (not covered in this activity).

Click NEXT to continue →

Microsoft Imagine Binary Break-In Microsoft

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Use C# in Visual Studio with the Unity editor to complete Binary Break-In, a game where a safecracker needs in-depth binary number knowledge to open the safe. Use bitshifts in the code to convert numbers, and then learn to use Unity's animation state diagram for triggering specific animations on events.

To create this project, follow these steps:

- Download and install Unity 5.2 or higher if you don't have it.
- If you don't have Visual Studio, choose to install Visual Studio 2015 Community Edition while installing Unity. This will also install Visual Studio 2015 Tools for Unity for you.
- Once both Unity and Visual Studio are done installing, download the Binary Break-In files on GitHub.
- Follow along with the Office Mix presentation here to begin creating and coding!

Unity 5 download link (5.2 or higher recommended)  
Binary Break-In files on GitHub

## Step by step walkthrough's of practise activities

### Create Binary Break-In

Microsoft Imagine X

## Binary Break-In

Use binary numbers, crack the safe!

Click NEXT to continue →

Microsoft

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Binary Break-In files on GitHub

# Try things out and even download

## Get coding software from Microsoft Imagine Access

Imagine Access is your all-access pass for the software tools you need, no matter your skill level or experience, and all at no cost to students!

### Featured software for beginning coders



Download Kodu Game Lab and make your first video game



Launch TouchDevelop and make your first app



Launch Windows App Studio and share your ideas and stories

## Simple Interface to use

Microsoft | Developer Network

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Pick practise projects that you suit you

### Code Projects

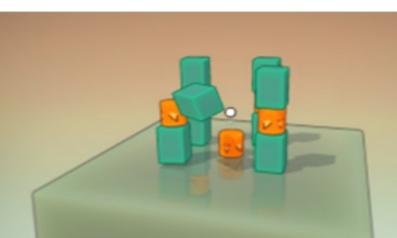
Grow your dev skills. Learn how to create a game, complete an activity, or build an app following these easy to use project tutorials.



Binary Break-In: Crack the binary code, make bank

Learn the binary number system, apply it with bitshifts, get the gold! (C#/Unity)

Get started



Block Knock: Key collisions and camera controls

Play with projectiles and physics to clear the table! (C#/Unity)

Get started