Part 1: Minecraft And Me
What is Minecraft?

Minecraft is a game.
End of slide show, click to exit.
What is Minecraft?

Minecraft is a game of...

- Destroying and placing blocks.
- Building and creating.
- Resourcefulness and survival.
- Cooperation, Collaboration, and Social Interaction.
- Technology and computer skills.
Simple and Lovable

Minecraft is popular because...

- It is simple (at its root).
- The game world is large and begs to be explored.
- It benefits from creativity.
- The mobs (monsters and animals) are lovable.
- It is popular (word of mouth, merchandise, etc.)
 Allows for Creativity
Why Minecraft Is Good For The Library

- Minecraft has its own culture and a built-in following of dedicated players.
- It gets people who might not usually come to the library (or even leave their basements) in the door.
- There are lots of craft and program ideas online.

- A minecraft server and a minecraft program is good for the reputation of the technology department.
- Techs are usually behind the scenes, making things work but Minecraft gives us a chance to participate in a fun library program, out in full view of the public.

**Techs are fun too!**
The Minecraft Client Spectrum

Minecraft PC/Mac

Minecraft Xbox 360 Edition

Minecraft PS3 Edition

Minecraft Pocket Edition for iOS and Android

Requires a Mojang Account/Minecraft License ($26.95 per license)

Computer requirements can be found here
https://help.mojang.com/customer/portal/articles/325948-minecraft-system-requirements

but most Windows 7 machines can handle the client.

There is a free demo version you can use to test available @
www.minecraft.net.
Mojang Accounts/Minecraft License

A Mojang Account is free and connects to a valid e-mail address... but doesn’t do much on its own.

A minecraft license ($26.95) gives your Mojang account to ability to log into the minecraft client.

The $26.95 license is available from minecraft.net. You can also buy cards with a license key from target, best buy, gamestop, etc.
www.MinecraftEDU.com

Created a server software specifically for and only available to education institutions. Libraries now included!

Must buy $41 server software and then each license is $18 ($14 if buying 25 or more).

If you are going to purchase five licenses or more, this will save you money.
Get Other Departments On Board

Librarians have experience planning and administering programs. Get their help!

A minecraft program for the children’s department is going to look different from a teen program.

Librarians from these departments are going to know the audience.

The minecraft event is a great opportunity for librarians to get information about other library resources and programs to this group of patrons.

Libraries are fun too!
Crafts, Snack and Prizes

The Minecraft event can be about more than just playing the game on library computers.

It’s great to have snacks, crafts and other activities to do at the event or to take home.

There are tons of great ideas for minecraft activities online. (especially Pinterest).

Check these out!
Basic Gamemodes

**Creative**
Access to all block types in unlimited quantities. Good for the younger kids.

**Survival**
Players must mine, collect and craft all of their items, survive monsters at night (and each other), while building. Good for older kids.

Include the gamemode in your program description.
PART 2: A Minecraft Server
Options, Options, Options

Hosted In House
- You will need to have hardware capable of managing a minecraft server.
- You will need to have the time to set up and maintain the server.
- You will have complete control (and responsibility).
- **If** you have the hardware and the time, this option is **FREE**.

Hosted On The Web
- Hardware is supplied, operated and maintained offsite.
- Your time will still be required to make the server fit your needs.
- This option is costly. $15-20 per month for 30 players.
- Examples: ServerMiner.com MCProHosting.com
Initial Considerations

- Do I already have a machine to act as the server?
- Do I have a budget?
- Will my server be accessible from the web?
- Will my server be on all the time?
- How will I monitor who has access?
- How does a minecraft server fit in with the library’s policies?
- What kinds of programs are we going to have?
- How will we promote the server?
- Do I even have time for this...?
The Machine

Farmington uses a new HP Pro 3400 MT. Core i5 and 8GB RAM. Ubuntu Server OS.

Orion uses a HP Compaq 8100. Core i3 and 2GB RAM. Windows 7 OS.

You can use anything that fits the requirements here...
http://minecraft.gamepedia.com/Server/Requirements/Dedicated

Basically, a modern PC will work.
Vanilla vs. CraftBukkit

There are two major minecraft server options. Vanilla and (Craft)Bukkit. Both are free to download and install.

Vanilla is the easy, basic, and official minecraft server software available from https://minecraft.net/download

Bukkit is an open-source alternative that provides the means to extend and modify the Minecraft multiplayer server. http://wiki.bukkit.org/Setting_up_a_server
## Vanilla vs. CraftBukkit

<table>
<thead>
<tr>
<th>Vanilla</th>
<th>CraftBukkit</th>
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</thead>
<tbody>
<tr>
<td>➤ Official Minecraft Release</td>
<td>➤ Modified version of Vanilla Minecraft Server File allowing for easier</td>
</tr>
<tr>
<td>➤ No modifications to speak of. Basic gameplay.</td>
<td>➤ modification.</td>
</tr>
<tr>
<td>➤ Easier to update.</td>
<td>➤ Hundreds of mods available. (Swearblocker, server-change tracking/restoration, etc.)</td>
</tr>
<tr>
<td>➤ Basic multiplayer functionality is there.</td>
<td>➤ Mods can cause bugs and errors.</td>
</tr>
<tr>
<td>➤ Lack of mods may help run a minecraft server on weaker systems.</td>
<td>➤ Updates are less frequent.</td>
</tr>
<tr>
<td>➤ CLASSIC and fun!</td>
<td></td>
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Available from the web!(?)

This is done at Orion Public Library.

A set up where patrons can access the library’s minecrafter server from anywhere with an internet connection.

Allows patrons to play together after hours and without library supervision.

A way to stay connected when you’re closed.
## Watch Us Install!

<table>
<thead>
<tr>
<th>For inside the library:</th>
<th>For outside availability:</th>
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<tbody>
<tr>
<td>Download Files.</td>
<td>&lt;- Ditto</td>
</tr>
<tr>
<td>Create startup <code>.bat</code> file</td>
<td>Assign a Static IP</td>
</tr>
<tr>
<td>Find out your IP address</td>
<td>Firewall port forwarding</td>
</tr>
<tr>
<td>Connect clients</td>
<td>IP for outside users</td>
</tr>
<tr>
<td>If you have multiple</td>
<td>Distribute the Information</td>
</tr>
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</table>
Server is Installed

- Minecraft files overview.
- Backing up “world” files.
- Settings/Configuration File.
- Opped users.
- White List / Black List Users
- Updating craftbukkit .jar file
- Installing plugins.

(http://wiki.bukkit.org/Installing_Plugins)
Plugins

- Allow for greater control over experience
  - Swear filters
  - PvP Manager

- Allow the game to be more fun for the players
  - Mob Arena
  - Chat Color Changer
Connecting with a client

1. Double click the minecraft.exe file.
2. Log in with your Mojang/Minecraft Account.
3. *Edit the “profile” to ensure that the client version is the same as your server version.*
4. Click Play and then Multiplayer.
5. Click Add Server, input the server IP under “Server Address,” and click done.
6. Click on your server and click the Join Server button.
Minecraft Server Commands

http://minecraft.gamepedia.com/Commands

Entered on the server console or from a command line in game. (In game, commands must begin with a “/”)

Many commands only available to “operators” or “opped” users.

Use commands to change weather, in-game time, gamemode, gamerules*, game difficulty and much more.

* gamerules include settings for whether or not the weather or time of day changes, fire spreads, or mobs spawn.
Resources

See: MinecraftResources.docx