

/01



# 1 WE ARE GDA CRCE

We Code, Create, Conquest.  
We Are A Team Of Enthusiastic  
Programmers, Game  
Developers, Science Freaks And  
The Tech-Savvy Brains.

volume 1



FEBRUARY 2023



/03



# PIXALATED

DESIGN MAGZINE



# MEET THE FACULTY IN-CHARGE

'Coming together is the beginning. Keeping together is progress. Working together is success.'  
-Henry Ford

The way we work together determines the way we succeed. Keeping the goal in mind, with honesty and integrity Game Developer Association (GDA) was created.

GDA CRCE is constantly inspired to try to educate students about cutting-edge technologies, and worked tirelessly to provide the college students with good-quality events. Working with such an energetic team makes me happy. I'm incredibly delighted to introduce the inaugural issue of "GDA magazine," the outcome of their dream come true.. I'd like to thank the entire team for all of their hard work in producing the first issue of the magazine. Our magazine delves into the technologically advanced globe. I hope GDA CRCE continues to soar to new heights. My best wishes go out to everyone at GDA CRCE

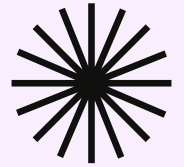


*Prof. Heenakansar Pendhavi*



HEAD OF OPERATIONS- RAHUL

ISSUE  
2022- 2023



# MANAGEMENT *Delegates*



LEAD-SAHIL BANE



CO-LEAD -RITIKA RUMDE



MARKETING HEAD- HARSH



TREASURER -NIMISH



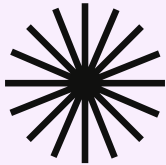


SENIOR GAME DEVELOPER-SANTO



JUNIOR GAME DEVELOPER-ARYAN

ISSUE  
2022- 2023



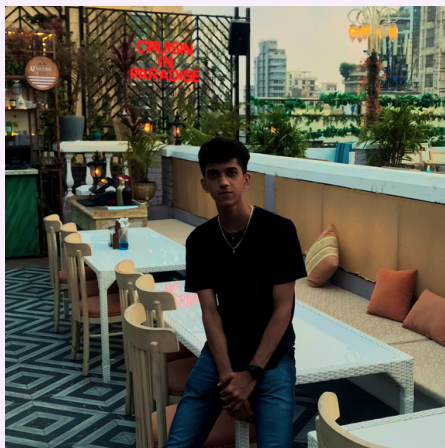
JUNIOR GAME DEVELOPER-  
HIMANSHU



JUNIOR GAME DEVELOPER-  
MAHESH



JUNIOR GAME DEVELOPER-  
SHELDON



JUNIOR GAME DEVELOPER-  
PRADYUMNAA

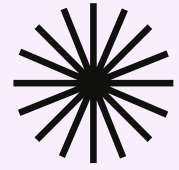
# GAME *Developers*





SENIOR ANIMATOR-SAHIL PUROHIT

ISSUE  
2022- 2023



# the visionaries



JUNIOR ANIMATOR-BLAISE



JUNIOR ANIMATOR-DEVENDRA

# THE *Animators*

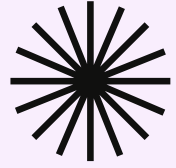


JUNIOR ANIMATOR-ADVAIT



JUNIOR WEB-DEVELOPER -RICKY

ISSUE  
2022- 2023



# the technocrats



SENIOR WEB DEVELOPER- MOEEZ



SENIOR WEB DEVELOPER- BHUSHAN

TECHNICAL

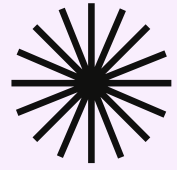
*Department*





PR HEAD- MALAIKA

ISSUE  
2022- 2023



# PR & *Design*



SENIOR DESIGNER-GOURI



SENIOR DESIGNER-SANVI



JUNIOR DESIGNER-SHREYA



DIGITAL COMMUNICATIONS -VEDANT

*Combining state-of-art tech and the gen-z culture, we aim to create an environment where both fun and facts can coexist.*



Crescendo 2k23: prop hunt



Unlock your creativity: day 2

## *The Event Gallery by* | GDA |

We Are A Team Of Enthusiastic Programmers, Game Developers, Science Freaks And The Tech-Savvy Brains. With An Avant-Garde Perspective, We Aim To Revolutionize The Era Of Game Development.

Unlock your Creativity was a huge success. Objective of this seminar was to generate student's interest in game development along with animation skills and to motivate them to come up with innovative ideas with student teams to create full fledged game and creative animations.

The Game Developers Association was also a part of the Synergy event. The games that were organized by GDA were relay X&O, Blow war, Defuse or die which were played as the round 1, round 2 and the final round respectively.

Next, the Crescendo 2023 event. It was a highly anticipated four-day gathering for gaming enthusiasts, organized by the esteemed Game Developers Association (GDA). The event's primary objective was to provide an environment where participants could enjoy a range of exciting activities while showcasing their skills and engaging in healthy competition.

On 4th-5th October 2022, Hackathon, "HACKOVER 3.0" was held. It was organized by the Game Developers Association in collaboration with Google Student Developer Club, E-Cell and CSI. Hackathon provided student contributors to strengthen soft skills like leadership and communication. It was an opportunity to explore their technical and coding skills, overcome their weak areas and compete for fame and glory.

Our flagship event was held on 17th -18th October 2022, Hackathon, "Stratagem 2k23". The primary goal of this event was to boost the innovation culture and further establish the idea-sharing, effective collaboration and creativeness driven by enthusiasm towards a shared goal. The hackathon allowed the participants to connect with Industry personnel's, faculty mentors, and most importantly, with each other.



Trends in designs



# DESIGN PROCESS



Design is the process of creating visual, tangible, or functional objects to meet a specific need. Designers must consider the intended use of the object, the users, and the environment. One of the key trends in design today is the focus on user-centered design. New technologies and materials are constantly being developed to help designers create new and innovative products.





### Theories Street Fighter 5

- Nash Equilibrium: In Street Fighter 5, players must choose a character and moves to use in a match. It concept in game theory that represents a state where all players have chosen the best strategies.
- Rock-Paper-Scissors mechanics: Street Fighter 5 contains elements of a "Rock-Paper-Scissors" (RPS) system, where certain moves or strategies "beat" others.
- Meta: The "meta" of Street Fighter 5 refers to the most effective or popular strategies, characters, and techniques used by top players.
- Risk vs Reward: Players must weigh the potential risks and rewards of each move or the strategy they choose.
- Mix-ups: Mix-ups refer to the ability of a player to create uncertainty in their opponent's mind and force them to guess at the player's next move.

# GAME THEORIES

### GTA 5 GAME THEORY:

- Cooperation vs Competition: In GTA Online, players can either choose to work together or compete in various activities such as heists, deathmatches. The choices players make affect the rewards and outcome of the game.
- Crime and Punishment: In GTA 5, players can engage in criminal activities such as theft, murder, and other illegal activities. The consequences of these actions can impact both the player committing and other players in the game.
- Meta: The "meta" of GTA Online refers to the most effective or popular strategies, vehicles, and techniques used by top players.
- Reputation: In GTA Online, players can earn a reputation as skilled or dangerous players based on their actions in the game.
- Game Theory Equilibria: Game theory equilibria, such as the Nash Equilibrium, can be used to analyze the behavior of players in GTA Online.
- Role Selection: Players in GTA Online can choose from a variety of roles, such as driver, shooter, hacker, and more. The role they choose can affect the types of activities they participate in and their potential rewards.
- Strategic Substitutability: Players in GTA Online must make choices of activities they participate in, and whether to switch between different activities.

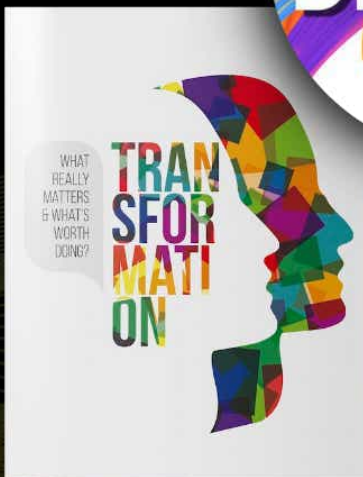
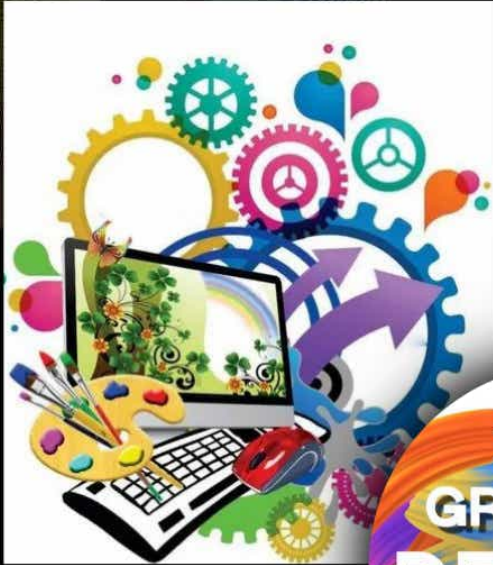


### Doki Doki Literature Club is filled with various Easter eggs and hidden references:

- Monika's Room: In the game's files, there is a secret room that can be accessed by changing the game's code, where the player can interact with Monika, the club's president.
- Poems: The player can write poems for each club member, and some of them contain hidden meanings and references to other works of literature.
- Music: The game's soundtrack includes several remixed and original pieces of music, and some tracks contain hidden messages and Easter eggs when played backwards.
- The Wall: In the game's files, there is a hidden wall of text that tells a story separate from the main narrative.
- References to Japanese Culture: The game contains references to Japanese culture, including the use of haikus and references to Japanese folklore.
- The Menu: The game's menu contains hidden messages and references that change based on the player's choices and progress in the game.

DYLAN D'SILVA  
SE AI&DS

# MANY FACES OF GRAPHIC DESIGN



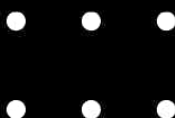
## What is graphic design?

Graphic design is a professional sphere of human activity that lies at the crossroads of visual arts, communication, psychology, and other expert areas. Graphic designers create the ways and assets of communication using graphic (visual) elements.

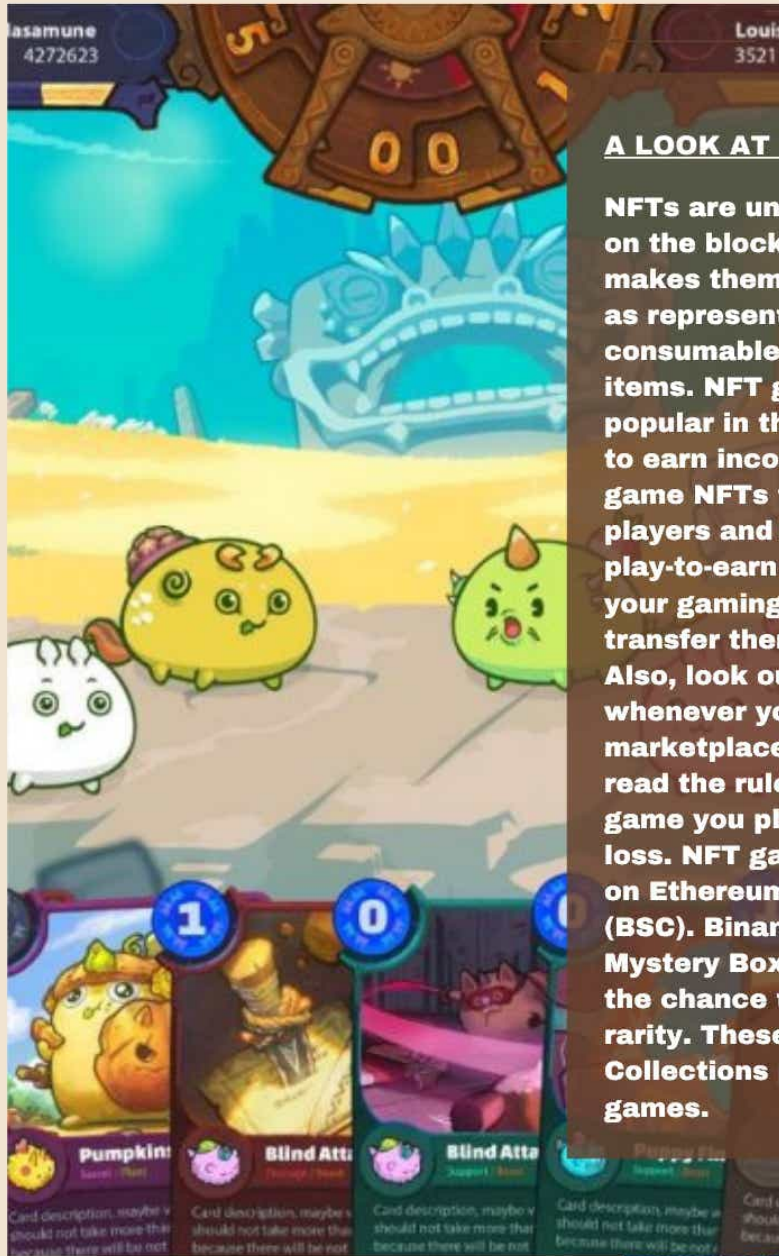
## What are the creative directions of graphic design?

Today, graphic design is a broad area to apply typography, editorials, print advertisements, signs, graphic assets for animated videos and cartoons, big print items such as posters and billboards, packaging, etc.

The article covers questions about graphic design: definition, directions, skills needed for a successful career and a huge pack of design examples.



# NET GAMES!



## A LOOK AT NFT TRENDS

NFTs are unique digital collectibles on the blockchain. This feature makes them suitable to use in games as representations as characters, consumables, and other tradeable items. NFT games have become popular in the Game-fi world as a way to earn income. You can sell your in-game NFTs to other collectors and players and even earn tokens with play-to-earn models. When moving your gaming NFTs, make sure you transfer them to a compatible wallet. Also, look out for common scams whenever you send the NFT to an NFT marketplace or other user. Finally, read the rules carefully of any NFT game you play to see any chance of loss. NFT games are mainly present on Ethereum and BNB Smart Chain (BSC). Binance also offers NFT Mystery Boxes, which give holders the chance to own NFTs of varying rarity. These Boxes are included in Collections partnered with NFT games.



# A PEEK INTO THE GAME DEVELOPMENT

overview of many small topics covers

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## **-GAME DEVELOPMENT**

Game Development is the process of designing and creating video games. It involves a team of designers, artists, programmers, and producers who work together to bring an idea to life.

## **-PRE-PRODUCTION**

In the pre-production stage, the game concept is fleshed out and a team is assembled. The team creates a design document that outlines game mechanics, storyline, and art style.

## **-PRODUCTION**

The production stage is where the game is actually built. Artists create characters design and game environments, while programmers write the code which makes the game run.

## **-TOOLS AND TECHNOLOGY**

Game development requires variety of tools and technology including game engines, programming languages, C++, python, unity, etc.

## **-CHALLENGES**

It is a challenging field, there are many obstacles that team must overcome. The budget, deadlines need to constantly innovate.

## **-CONCLUSION**

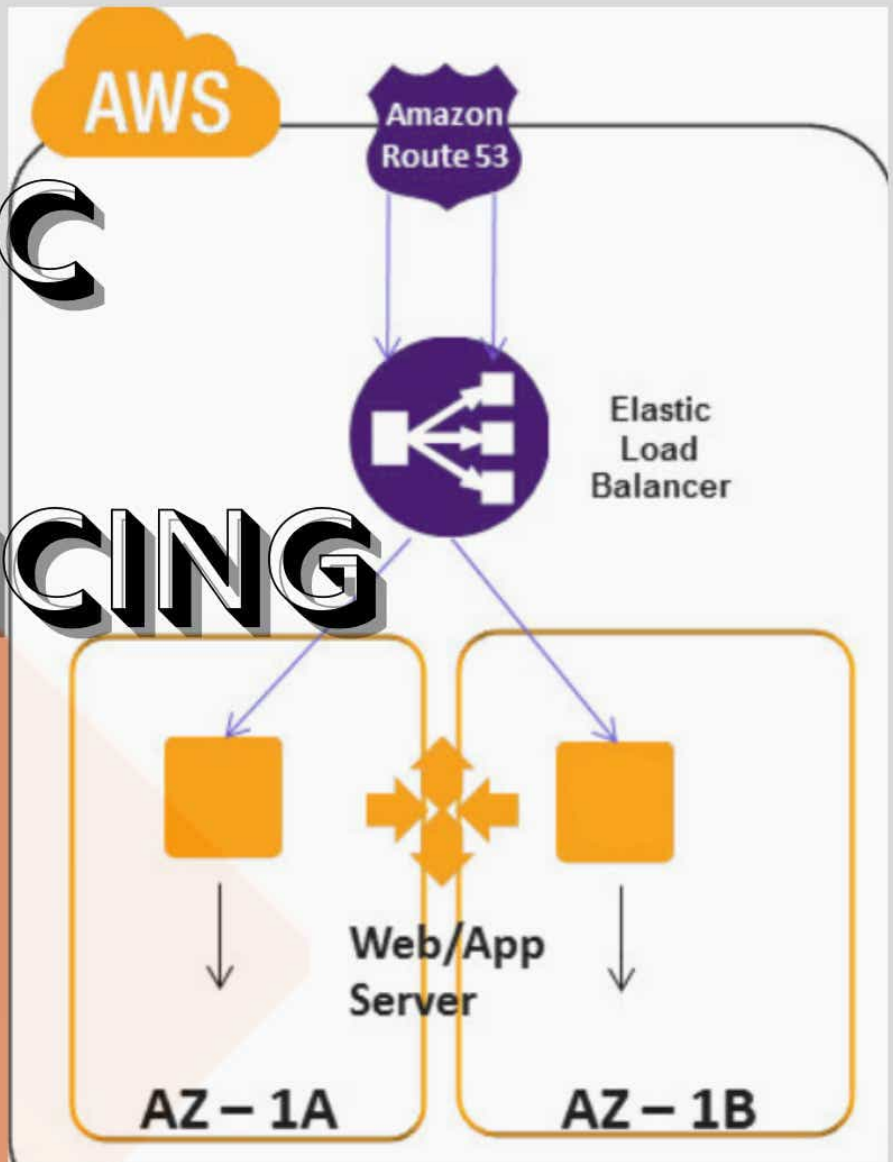
Game development is a complex yet a rewarding process. It requires talented and dedicated team.

# AWS : ELASTIC LOAD BALANCING

**A**WS offers over 200 fully featured services, making it the most complete and popular cloud platform to date.

You may create complex web applications with more flexibility, scalability, and dependability by using AWS's services. Moving our current applications to the cloud is made simpler and more affordable by AWS, enabling us to construct anything we can think of.

## AWS Elastic Load Balancing (AWS ELB)



AWS has the services to assist you in developing complex applications with increased flexibility, scalability, and reliability. AWS offers over 200 fully featured services, including but not limited to ones providing compute power, database storage, content delivery, or other functionality. In order to distribute incoming load to resources in our web applications or websites efficiently, we need a service called load balancing. To help with improving performance, users can enable load-balancing.

AWS Elastic Load Balancing (ELB) is the name of the load balancing service that it provides. The following are the services offered by elastic load balancing:

- target health monitoring.
- Directing traffic to safe targets.
- scale the balancer over time in response to traffic changes.

### 1) A load balancer for applications:

Here Decisions are made at the application layer (HTTP/HTTPS), and each container instance in your cluster can route requests to one or more ports using path-based routing. These are advantages of employing application load balancers: support for path conditions, support for host conditions It offers Support for Request-Routing based on Request Fields, etc

### 2) Load balancers for networks:

Here At the fourth layer of the Open Systems Interconnection (OSI) paradigm, a network load balancer performs its functions. Millions of queries can be handled per second. The target for the default rule is chosen by the load balancer. The IP address for the relevant subnet is removed from DNS, but the load balancer nodes in the other Availability Zones are still able to route traffic, for instance, if one or more target groups do not have a healthy target in that Availability Zone. The following advantages come from employing a network load balancer rather than a traditional load balancer: the capacity to scale to millions of requests per second and manage unstable workloads. It offers support for the load balancer's use of static IP addresses, etc.



# Zooming into Real Life Gaming

Everyone loves gaming  
Then why not love our life?  
Gaming feels damn special in childhood  
Then why not in adulthood?  
Life too feels like a fascinating game, isn't it?  
Simply, just like the soul that resides in the human body.  
Gaming kicks off here...  
Everything begins with a small step at a time  
As time passes by we level up learning from mistakes and moving to the next levels  
As we level up difficulties build up as well  
As humans become familiar with difficulties they try to give up and ultimately give it an end.  
But some come up with strategies and keep moving ahead in life.



**GAMES  
GAMES  
GAMES**



Gaming and Living come with sustaining by the rules.  
Sustaining by the rules simply means living up to the social standards that exist in society.  
You are then rewarded according to your performance  
For a time being when you feel messed up and you take a break but the time doesn't wait for you instead, what happens is you are simply stuck in the rat race.  
But being still never benefits  
All you need is rewards that bring the utmost happiness.  
We keep on unlocking levels, moving from beginner to intermediate level  
As levels are upgraded, the struggle for rewards is more.  
The reward and the happiness come with troubles and many more twists..  
Life will too hang  
Life will too get boring,  
Challenges exist at every level,  
But in gaming, the challenges excite us, don't they?  
Cheer up yourself and grow stronger as a player!  
Acceptance, Faith, and Patience are the best weapons to win the game.  
Play your game and win but help others win their game too!

**TE COMPS A  
Gouri Sankhe**





**SE AI&DS**

**Sheldon Chettiar**



# VITE

**THE GAME CHANGER FOR REACT DEVELOPERS**

## What is Vite?

**Vite is a build tool for modern JavaScript applications that help you create React apps faster than ever before. It comes with a built-in, super-fast local server that makes developing, the super-fast local server that makes growing your applications a breeze.**

## Why use Vite?

**If you're a React developer, you know that speed is everything. Vite's fast local server makes it possible to develop your applications quickly and easily. Vite is also incredibly easy to use. It is a lot of fun! With its fast local server and simple, intuitive interface, you'll enjoy working with this tool and creating outstanding applications. It can also be used with a variety of Javascript frameworks including Svelte, Angular, Preact, and many others. Start using Vite today and experience the difference for yourself!**



# DIFFERENT ANIMATION STYLES

<https://drive.google.com/open?id=18zLRwlaDZReWxObxgz2SCM7rylgJh7bR>

Animation has been an integral part of the media industry for many years now. It is used in movies, cartoons, advertisements, and more. The use of animation has also expanded to various styles and techniques, making it possible to create virtually any type of scene or effect. With the advancements in technology, animators have even more freedom to explore their creativity and create innovative animation styles. The traditional 2D animation style is still used in some forms of media. 3D animation is a newer animation style that has been gaining in popularity. Motion graphics are a style of animation that is used to create text and graphics with movement.



MOTION  
MOTION  
MOTION

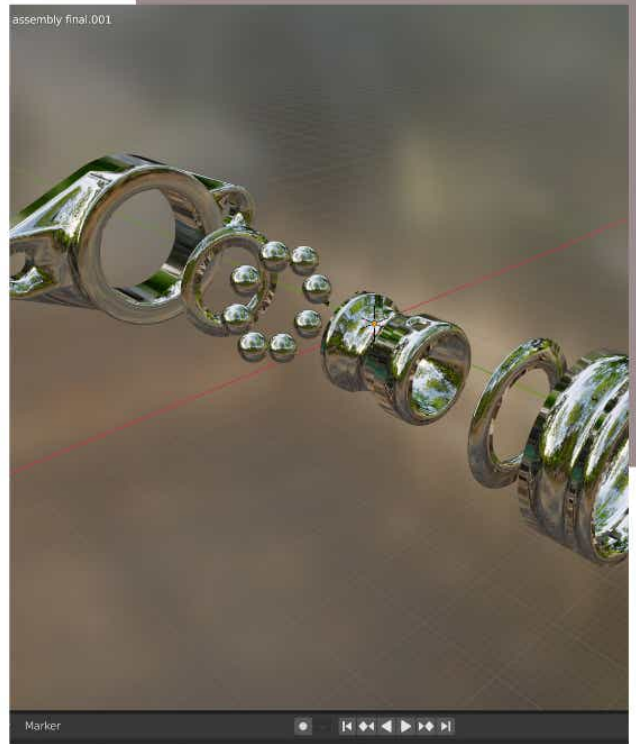


Digital 2D animation is a combination of 2D and 3D animation. It is a technique that uses both traditional hand-drawn animation and computer-generated imagery. This style of animation gives animators more control and flexibility, allowing them to create detailed characters and scenes. Digital 2D animation is used in a variety of ways, such as feature films, television shows, music videos, and commercials.

**Ritika Rumde**  
TE\_COMPS A

# Blender

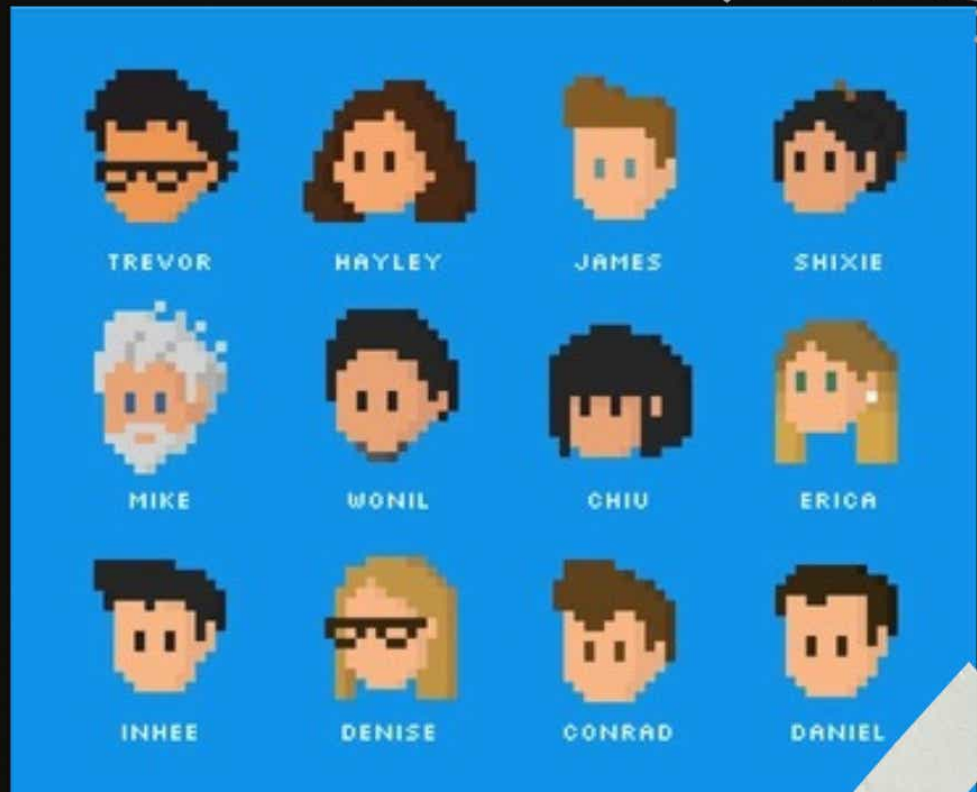
Blender is a free and open source 3D creation suite. It supports the entirety of the 3D pipeline—modeling, rigging, animation, simulation, rendering, compositing and motion tracking, and video editing.



COMPS B  
Janice Deruz

DESIGN

# PIXELATED THEME



The whole magazine in a pixelated theme/design



Pixelation can happen accidentally