SisTema tutor de computação gráfica

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**Resumo:** O resumo é uma apresentação concisa dos pontos relevantes de um texto. Informa suficientemente ao leitor, para que este possa decidir sobre a conveniência da leitura do texto inteiro. Deve conter OBRIGATORIAMENTE o OBJETIVO, METODOLOGIA, RESULTADOS e CONCLUSÕES. O resumo não deve ultrapassar 10 linhas e deve ser composto de uma sequência corrente de frases concisas e não de uma enumeração de tópicos. O resumo deve ser escrito em um único texto corrido (sem parágrafos). Deve-se usar a terceira pessoa do singular. As palavras-chave, a seguir, são separadas por ponto, com a primeira letra maiúscula. Caso uma palavra-chave seja composta por mais de uma palavra, somente a primeira deve ser escrita com letra maiúscula, sendo que as demais iniciam com letra minúscula, desde que não sejam nomes próprios.]

**Palavras-chave**: Ciência da computação. Computação gráfica. Ensino e aprendizagem. Unity.

# Introdução

Você sabe matemática básica? De acordo com Fernandes (2016), o número de alunos brasileiros sem o conhecimento de matemática básica tem diminuído consideravelmente. Contudo, a posição do Brasil comparada ao resto do mundo é ainda considerada inferior. Idoeta (2018) critica o sistema de ensino brasileiro, afirmando que os alunos de hoje em dia não aprendem conceitos matemáticos, mas aprendem como decorar fórmulas.

As questões do Exame Nacional do Ensino Médio (ENEM) que são consideradas difíceis por sua complexidade, mas que apresentam resolução por fórmula tem um índice de acerto maior do que questões consideradas fáceis e dependem de conceitos de matemática básica (IDOETA, 2018).

Estes alunos que não desenvolveram uma boa base de matemática, acabam encontrando dificuldades no seu dia a dia, inclusive, durante um curso superior. Um exemplo de tal caso é a matéria Computação Gráfica do curso de Ciências da Computação que, para realizar simples interações com os objetos gráficos, é necessário o conhecimento de matrizes, circunferências, funções, entre outros.

Para facilitar o entendimento dos estudantes na matéria de Computação Gráfica, este trabalho pretende desenvolver uma aplicação que auxilie na aprendizagem de Computação Gráfica, explicando os conceitos matemáticos utilizados nesta matéria de uma maneira simplificada.

# FUNDAMENTAÇÃO TEÓRICA

Nesse capítulo será apresentado a fundamentação teórica, no qual o item 2.1 irá tratar dos conceitos utilizados no desenvolvimento desse trabalho e no item 2.2 apresentará os trabalhos correlatos com o trabalho relatado nesse artigo.

## CONCEITOS

Este capítulo descreve brevemente os assuntos que fundamentarão o estudo a ser realizado: sistemas tutores, Computação Gráfica e os conceitos matemáticos utilizados em seu meio.

### SISTEMAS TUTORES

Toledo (2015) afirma que um software tutorial é um sistema que contém informações organizadas em uma ordem pedagógica e é composto por instruções programadas, em que a interação entre aluno e computador é realizada através da leitura, audição ou escrita de informações. Segundo Toledo (2015) a principal proposta de um software educacional é dar suporte ao processo de ensino-aprendizagem nos diferentes conteúdos ministrados, tornando o aluno um ser ativo na construção do conhecimento.

O processo de ensino-aprendizagem com o uso de aplicações tecnológicas, de acordo com Toledo (2015), acontece de forma mais interativa e dinâmica, entretanto, para que tal processo aconteça de forma satisfatória, é necessário que as ferramentas utilizadas possuam princípios de qualidade em sua interface. A eficiência do uso de recursos computacionais, auxiliando na melhoria do ensino, deve acontecer pela avaliação dos resultados obtidos com o uso das ferramentas tecnológicas disponibilizadas para alunos e professores da instituição.

### COMPUTAÇÃO GRÁFICA - MATEMÁTICA

Gomes (2003) diz que a Computação Gráfica pode ser descrita como o estudo da síntese, do processamento e da análise de objetos gráficos. Um objeto gráfico é normalmente representado através de polígonos que, posteriormente, costumam passar pelo processo de triangulação, no qual o objeto gráfico é dividido em vários triângulos menores para facilitar seu processamento. Para interagir com tais objetos gráficos, é útil que se entenda sobre as propriedades e características dos triângulos que o formam.

### MATRIZES

Silva (1990) afirma que uma matriz é uma tabela formada por m linhas e n colunas, podendo ser chamada de matriz de ordem m x n. Persiano (1988) afirma que matrizes são necessárias em computação gráfica para se calcular os movimentos de transformação (translação, escala e rotação) de um objeto gráfico. Estes movimentos de transformação são operações consideradas usuais e são muito utilizadas em Computação Gráfica.

## TRABALHOS CORRELATOS

Dentre os trabalhos correlatos, encontra-se o Visedu-Mat 2.0 (MACHADO, 2014), por sua proposta semelhante a esse trabalho, no qual é possível visualizar funções matemáticas em 2D e 3D. Nele também é possível a visualização de múltiplos objetos gráficos ao mesmo tempo. O segundo é o Geogebra (HOHENWARTER *et al*., 2019) que além de permitir a visualização de funções em 2D e 3D, ele trabalha com outras áreas da matemática, como a probabilidade, estatística, entre outros. O Geogebra também permite a visualização de diversos objetos gráficos simultâneos quando se estiver tratando de um assunto que tenha objetos gráficos, como no modo de geometria ou no modo de gráficos. O último é o Pat2Math + Handwriting (MORAIS; JAQUES, 2017) por ser uma aplicação focada no ensino de matemática. O Pat2Math + Handwriting é um Sistema Tutor Inteligente (STI) que tutoria o aluno através de exercícios diversos de matemática.

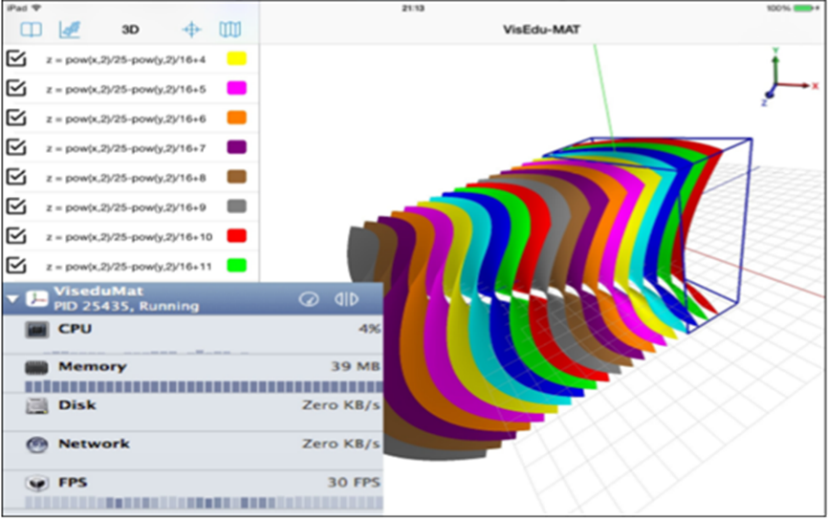
Quadro – VISEDU-MAT 2.0

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| Referência | Machado (2014) |
| Objetivos | Permitir a visualização de funções matemáticas para facilitar o entendimento delas. |
| Principais funcionalidades | Visualização de funções matemáticas em um ambiente 2D e 3D. Criação de múltiplos objetos gráficos simultâneos. |
| Ferramentas de desenvolvimento | A aplicação foi desenvolvida para o iPad em OpenGL ES. |
| Resultados e conclusões | Foram realizados diversos testes de performance em sua aplicação. Todos os testes foram realizados com o Visedu-Mat 2.0 no modo 3D, utilizando a ferramenta Instruments 6.1 (56160) que vem instalado juntamente com o Xcode 6.1 (6A1052d) para exibir valores de dados como CPU, memória, disco, rede e Frames Per Second (FPS). Machado (2014) conclui que, embora tivesse encontrado dificuldades com a linguagem e com a validação das funções, obteve um resultado positivo, cumprindo todos os objetivos propostos. |

Fonte: elaborado pelo autor.

A Figura 1 apresenta a tela do VISEDU-MAT 2.0, na qual é feito um teste de performance, onde na sub-tela na esquerda são criadas as funções matemáticas que aparecem representadas de maneira tridimensional na tela principal na direita. No canto inferior esquerdo é demonstrado o consumo de memória da aplicação por meio de uma aplicação externa.

Figura 1 - Tela do VISEDU-MAT 2.0



Fonte: Machado (2014).

Quadro 2 – GEOGEBRA

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| Referência | Hohenwarter *et al*. (2019) |
| Objetivos | Facilitar o processo de aprendizagem na área de matemática. |
| Principais funcionalidades | Apresenta representação visual para diversos temas da área da matemática, como geometria, álgebra, gráficos, probabilidade, estatística, entre outros. |
| Ferramentas de desenvolvimento | A aplicação foi desenvolvida em Java. |
| Resultados e conclusões | Ele é um software multiplataforma mundialmente conhecido e utilizado diariamente por diversos educadores para facilitar o processo de aprendizagem da área de matemática, o que resultou em diversos prêmios para a aplicação com o passar dos anos. O GeoGebra possui uma vasta comunidade de usuários em praticamente todos os países e com uma faixa etária diversa. |

Fonte: elaborado pelo autor.

Quadro 3 – PAT2MATH + HANDWRITING

|  |  |
| --- | --- |
| Referência | Morais e Jaques (2017) |
| Objetivos | Facilitar a utilização do Pat2math e consequentemente melhorar o desempenho dos usuários. |
| Principais funcionalidades | Todas as funcionalidades anteriores do Pat2Math além da inserção de dados por meio de desenho em smartphones e tablets. |
| Ferramentas de desenvolvimento | O próprio Pat2Math e o kit de desenvolvimento web MyScript Math. |
| Resultados e conclusões | Após os testes, não foi identificado um nível de aprendizado diferenciado, entretanto, foi observado um maior nível de engajamento e entretenimento por parte dos usuários. |

Fonte: elaborado pelo autor.

# DESCRIÇÃO

Nesta seção serão descritos detalhes sobre o desenvolvimento da ferramenta, na seção 3.1 serão descritos os requisitos e objetivos da ferramenta, na seção 3.2 tem-se um detalhamento sobre a implementação do aplicativo além de softwares utilizados na implementação e na seção 3.3, uma visão geral da ferramenta.

## Especificação

O desenvolvimento da ferramenta seguiu os principais Requisitos Funcionais (RF) e Requisitos Não Funcionais (RNF) destacados a seguir:

1. permitir visualização de objetos gráficos em um ambiente 3D (Requisito Funcional - RF);
2. permitir mais de um objeto gráfico simultâneo (RF);
3. aplicar operações de transformação no objeto gráfico gerado ao alterar valores na função (RF);
4. permitir movimentação livre da câmera em torno do objeto 3D gerado (RF);
5. permitir alteração de valores como cor e transparência do objeto 3D gerado (RF);
6. possibilitar pular e assistir novamente aos tutoriais (RF);
7. ser desenvolvido em Unity (Requisito Não Funcional - RNF);
8. ser visualizável em desktop, tablet, smartphone e web (RNF).

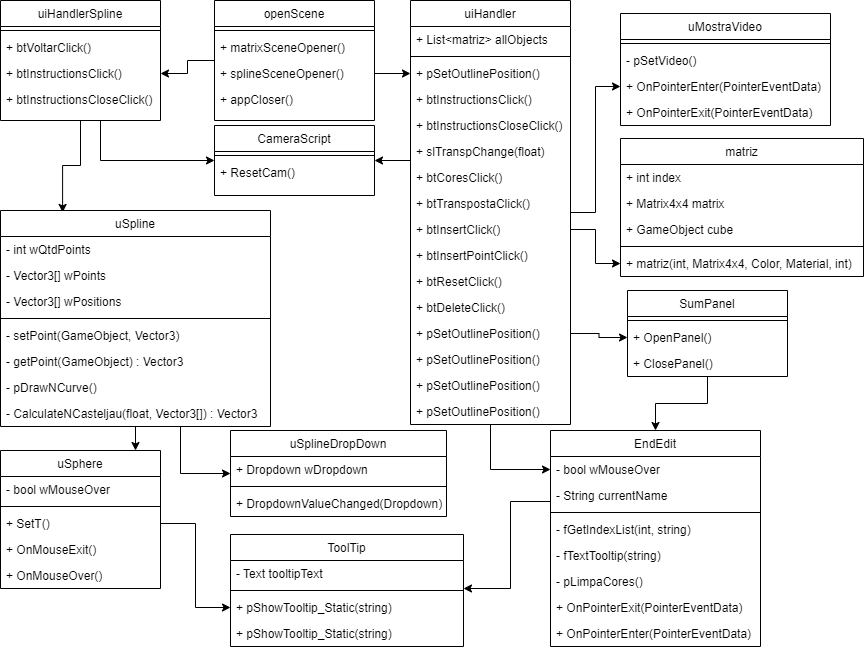
Figura 2 – Diagrama de caso de uso

Diagrama

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

Figura 3 - Diagrama de classes



Fonte: elaborado pelo autor.

Figura 4 – Diagrama de sequência da multiplicação

Diagrama

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

## IMPlementação

O projeto foi desenvolvido em Unity utilizando a linguagem C# na programação. Também foi utilizado o Blender para a modelagem do asset das setas de referência e os vídeos foram gravados utilizando o software Screencastify.

No motor de jogos Unity são utilizadas de cenas para realizar suas operações. Nessa ferramenta foram utilizadas três cenas para melhor organizar e demonstrar as suas funções. A primeira cena, MainScene, é utilizada como tela inicial apenas, e por ela é possível acessar as duas outras cenas principais. A segunda cena, MatrixScene, é utilizada como ambiente para todas as funções realizadas na matriz. Nessa cena, a maiorias das funções foram feitas no código fonte uiHandler. Todo objeto gráfico criado na tela de matrizes contém a classe matriz, que pode ser observada na Figura 5, na qual apresenta o constructor e as propriedades necessárias para realizar as funções disponíveis na aplicação. Os objetos gráficos criados podem ser o cubo e o ponto, sendo que ambos são reconhecidos a partir de suas tags atribuídas pelo constructor no momento da criação. Cada objeto tem o seu objeto matriz e guarda suas transformações no mesmo.

Figura 5 - Classe matriz

Interface gráfica do usuário, Texto, Aplicativo

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

Conforme as alterações são feitas nos objetos gráficos a rotina update, que fica em um loop constante conforme a aplicação está em execução, atualiza o ui com a matriz do objeto atualmente focado e desenha a outline no objeto. Conforme objetos são inseridos e removidos da cena através dos botões inserir e remover presentes, a lista de objetos allobjects é atualizada e o index do objeto atual é transferido para a variável de foco wCubeIndex (Figura 6). Além das funções principais também foi necessário criar rotinas de conversão que são utilizadas em diversas partes da aplicação, principalmente nas partes onde valores são atribuídos ou resgatados de componentes como imputfields, através das rotinas strToFloat e strToInt. Também foi criada uma classe tooltip, que apresenta qualquer texto em qualquer componente no formato de hint. Essa rotina foi principalmente utilizada por componentes imputfields tanto na cena de matrizes (MatrixScene) quanto na cena de splines (SplineScene).

Figura 6 - Método de inserção

Texto, Carta

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

A última cena da aplicação é a splineScene, na qual está presente todas as funções de spline. Nesta cena a rotina mais importante é a calculateNCasteljau (Figura 7), que utiliza do algoritmo de Casteljau para calcular cada ponto presente na linha de splines. Esta rotina retorna um ponto dependendo dos pontos de controle e da variável t, que apresenta um valor decimal entre 0 e 1, no qual o 0 marca o ponto inicial e o 1 marca o ponto final da spline.

Figura 7 - Método Casteljau

Texto

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

Cada um dos pontos retornados pela rotina calculateNCasteljau é desenhado como uma spline pela rotina pDrawNCurve, que apresenta um loop que depende da quantidade de pontos da spline, valor que é armazenado na variavel wQtdPoints, conforme pode ser observado na Figura 8. Foi preciso criar uma classe uSphere que é atribuida a cada um desses pontos da spline, para possibilitar demonstrar o valor de cada ponto em execução. Nesta classe é chamada a classe de tooltip no momento que o mouse sobrepõe um ponto da spline, e em seguida é demonstrado o valor do ponto em formato de hint.

Figura 8 - Método que desenha a spline

Texto, Carta

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

Para ambas as cenas, foi necessário criar uma classe cameraScript que inicializa a câmera nas cenas e apresenta as rotinas de movimentação da câmera.

## operacionalidade

A ferramenta apresenta uma tela inicial com as opções matriz, splines e fechar, como mostra na Figura 9. A opção fechar fecha a ferramenta, a opção de splines abre a tela de splines e a opção de matriz abre a tela de matrizes.

Figura 9 - Tela inicial

![Interface gráfica do usuário

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGJydW5vIGdpYmljb3NraQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMjUAAJKSAAIAAAADMjUAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fonte: elaborado pelo autor.

EA tela apresentada na Figura 10 contém campos para inserir os valores da matriz do objeto atualmente selecionado, um botão inserir objeto que insere mais um objeto gráfico na cena, um botão inserir ponto que insere um objeto gráfico que representa um ponto na cena, um botão deletar que deleta o objeto gráfico selecionado, uma opção que atribui a matriz identidade para a matriz do objeto atual, uma opção que converte a matriz do objeto atual para a matriz transposta, um botão que altera a cor do objeto gráfico atualmente selecionado, um slide que permite ajustar a transparência do objeto gráfico atualmente selecionado, um botão multiplicar que abre uma subtela que permite realizar diversos cálculos básicos na matriz do objeto atualmente selecionado, um botão de instruções que apresenta as teclas que realizam alguma função na ferramenta, um botão de voltar que retorna para a tela inicial previamente descrita, além da própria cena gráfica com os objetos gráficos gerados, como pode ser observado na Figura 10.

Figura 10 - Tela de matrizes

![Diagrama

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGJydW5vIGdpYmljb3NraQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMzEAAJKSAAIAAAADMzEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDoaMUtGK+iPIG4op2KSgBuKKdikoASkxTsUmKAEpMU6kxQAlJinUlACUlOxSUAJikp2KKBjcUYpaMUgG0YpaMUANoxS4ooAbiinYpKAG4opcUUAJSYp2KSgBtGKdSYoAbikp1FADcUlOxSUANxRTsUlADcUU7FJQAmKTFOxSUhiUmKdSYoASkp1FADcUUuKKAG4pKdijFADcUmKdikoAbRTsUlIBuKKXFFADcUUuKKAG4opcUUANxRiloxQMbRinUmKAG0U6koATFJTsUlACYpKdikpDEpMU6jFADaTFOoxQA3FFLiigBuKKXFFADaMUuKMUANoxTqTFIBtGKdSYoAbimJ9+T/AHv6CpcVEv8ArJP97+grx84/3dev6M0huY3in/jxg/67/wDsrVzddH4o/wCPGD/ruP8A0Fq52vBpfAjbod9RiloxX2xzDcUYp2KTFIBKKWigBMUmKdikxQAmKKXFFACUmKdSYoATFFLiigBKSnUUgG4oxS4oxQAlJTqKAG0YpaMUAJiilxRigBtFOooAbiilooASinUUANop1GKAEoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACUUtLQA2lpaMUAJijFLijFACYpaKWgBKMUuKMUAJS0tFACYoxS4pcUAJiilooASjFLilxQAmKMUuKKAEopaKAExS4pcUYoATFFLiigBKXFLRigBMUUuKKACjFLijFACYopaWgBMUYpcUYoASlopaAExRilxRigDpsUmKdijFdBkNxSU7FGKQDcUlOxRigBtJinYoxQA2jFLRigBtFLiigBuKKXFFADcUU7FJigBtGKdSYoASkxTqSkAmKSnYpKBiYpKdikoATFJTsUlACYpKdikoASkxTsUlACUmKdSYoAbRTqTFADcUlOxRigBuKSnUYoAbikp2KTFACUmKdSYpAJRS0YoGNxRS4ooAbiilxRQA2jFOpMUANxSU7FGKAG4pKdikpAJikp2KSgBMUlOxSUAJSYp1JigBKTFOpMUAJSU7FFAxuKSnYooAbiilxRQA2jFLRikMbRiloxQA3FFOxSUANxRTsUlACYpMU7FJigBKTFOpMUAJSU6kxSATFQD/Wy/7w/kKsYquP9dL/ALw/kK8fOP8Ad16/ozSG5jeKP+PGD/rt/wCytXO10Xif/jyg/wCu3/srVzteDS+BG3Q9AoxTqSvtjmExRilxRigBtFLRSATFGKXFGKAG4opcUUAJRiloxQA3FFOxSUAJRS0UgG4oxTsUmKAEopcUUAJSYp1GKAG4oxS4oxQAmKKXFGKAEopcUYoASjFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKXFADcUYp2KMUANxS0tFACUUtGKAExRilxS4oAbilxS4ooASilooATFLilxRigBKKWigBMUuKXFGKAEopaKADFGKXFGKAExSMyopZiAB1Jp1dd8NdGtNV8Q3lxfxLOlhDG0cTjKl5C/zEewj4+tRUnyR5ioR5nY44SAjIVyPUIf8ACjf/ALMn/ftv8K+kBIygBcADoAOlL5z+v6Vx/Wpdjo9gu5837x/dk/79t/hSGRQMkOB6lD/hX0j5z+v6UhkLKQ2CD1BHWj61LsHsF3PnFWV1DKQQehFLXWfEjR7TSPElpNp8SwR38EjyQoMKHjZQWA7ZDjP+771ytdlOfPHmOeceV2ExRilxRirJGO6R43EDPQetHmD+6/8A3wf8K9Q+F2jWa6CdZkhSW8uJ5VWR1yYkRygVfTO0n8a7/wA5/X9K4p4pqVkjpjRTV2z5w8wf3X/79t/hS+YP7sn/AH7b/Cvo7zn9f0o85/X9Kn61LsP2C7nzj5g/uv8A98H/AAo8wf3X/wC+D/hX0d5z+v6Uec/r+lH1qXYPYLufOPmD+6//AHw3+FL5i+j/APfB/wAK+jfOf1/Sjzn9f0o+tS7B7Bdz5y8wf3X/AO+D/hR5g/uv/wB8H/Cvo3zn9f0o85/X9KPrUuwewXc+clkRm2g4brtIwafiva/F+i2mueH7oXMSfaIomeGcL88bAZBB/DpXicD+bbxydN6hvzFdFGr7RamNSnyHU4oxTsUYruOYZijFOxRigBmKMU7FGKAGYoxTsUYoAZikxT8UmKAG4pMU/FJigBuKSn4pMUANxSYp2KMUANpMU7FGKAG4opaKAG4opcUUgG4opcUUDG4opcUUANxSU6jFADaTFOoxQA2kxTqTFACUmKdSYoASkxTqTFADaMU6kxQA2jFOpMUANoxTqTFADaMUtGKQDcUUtFADcUU7FJQMSkxTqTFACUmKdSYoAbiinUmKAG4pKdikpAJikp2KSgBKTFOoxQA2jFLRigBtFLRQA3FFLiigBuKKdSYoGNoxTqTFIBKTFOpMUDExSU7FJQAmKSnYpKAExSYp2KSgBKTFOoxQA2jFLRQA3FVv+W0v+8P5CrWKqn/Xy/7w/wDQRXjZx/u69f0ZpT3MXxN/x5Qf9dv/AGVq56uh8Tf8eUH/AF2/9lauerwaXwI3Wx6HSU6kr7Y5BMUYpcUUAJSU6koGJijFLijFACYpKdSUgEoxS0YoATFJinYoxQA2ilooATFGKXFGKQDcUU7FJQAlFLRQAmKTFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoATFGKXFGKAExRilxRigBMUYpcUUAJRS0UAJRS0UAJijFOxRigBMUYpcUUAJRS0UAJS4pcUYoATFFLiigBKXFLRigBMUYpcUUAJS0tFACYoxS4oxQAld78JP+Qlrv8A1ytf5zVweK7z4S/8hPXf+uVr/OaufE/wzWj8Z6bXFa3r3iC/8Yt4c8LJDbm3gE11fXUZZFz0VR3PIrtao6zqMejaLe6nKhdbWB5SqjltozivMO05fQfEet2vjNvC/ioW81xJbm5tbu2Uqsig4IKnoeDXbVw/gbRby+uR4y8RSB9S1C3At4V+7awN8wUe56mu4oA8w+LP/IY0P/r3uv8A0KGuGxXdfFj/AJDOif8AXvdf+hQ1w+K9PDfwzirfGNxS4pcUuK6DI9Y+GX/Ig2n/AF8XP/pRJS+PPEWo+FrbT9StVjexF2kd8GTLCNjjIPbnj8aPhl/yIVr/ANfFz/6USVs+I9Hi1/w5faZOPluIWQH+6ccH8DXjS+Jnox2RoiRGiEisChG4MOhHrXLeC/EV/wCJrjWLyURrpkN2bey2rhnC/eYnuM4xXLW/i+4t/gy6MT/bFux0nYPvecDsH6EH8Kv+JYpvAfwXFnprmK4ijjgaVeoZ2AdvzY1Izu11Kxa48hbyAzf88xIM/lWB4q8RXmja94ds7QRmLUr0QTb1yduO3oaxtQ+GugW3guQ28Hl6hDbmVdQDnzfMC537s+tYLatca5p/w11C9O6eW+Adj/EVJXP44zQB3beLoh8QR4bxEFFl9paYyD727aEx61u3N/aWePtdzDDnp5jhc/nXm8nh3SZvj2yy2MTKdLF0Qc/63zD8/wBeKh1M+F38Y6o19a3vim/ZgvkRwl0tAB9wEHGaAPUo7iGaHzYpUeP++rAj86jW/tGmWJbqFpHGVQSAlh7V5T4EkMI8cWEVpPYWkKq8NlO2TBujYke2etaXwo8H6UfCuj+ILmAz6oVZlndidgyyhQOmMCgD0HVP+QPef9cH/wDQTXgNmP8AQYP+ua/yr37VP+QPef8AXB//AEE14HZj/QYP+ua/yrtwm7OavsjrMUmKdijFeqcI3FJinYoxQA3FJin4pMUANxSYp+KTFADcUmKfikxQA3FJin4pMUANxSYp+KTFADcUmKfikxQAzFGKdijFADMUmKfikxQA3FJin4pMUANxSYp+KTFIBuKTFPxSYoAbikxTsUYoGMxRinYoxQAyjFOxSYoAbRinYpMUANoxTsUmKAG4pMU7FGKAG0mKdiigBtJinYooAbSYp2KSgBMUlOxSUgExSU7FJQAmKTFOxSUAJSYp1GKBjaTFOoxQA2kxTqTFADcUU6kxSAbijFLRigBtGKWjFADaKWigBMUlOxSUAJSYp1JigBKTFOoxQMbSYp2KKQDcUUuKKBjcUUuKKAG4pKdiigBtGKXFGKAG0UtFACYqm3/HxL/vD/0EVdxVF/8Aj5m/3h/6CK8bOP8Ad16/oy6e5jeJf+PKD/rt/wCytXP1v+Jf+POD/rt/7KawO1eDS+BHQtj0SilxRX2xyDcUYp2KTFACUUtFADcUYpcUYoASkp1FAxuKMUuKMUgExRS4ooAbRTqSgBKMUtGKAExRilxRikA2inUUANoxTqSgBMUYpaMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS0UAJiilooASilooASinUYoASjFLijFACYoxS4oxQAmKKdijFACUUuKMUAJijFLilxQA3FFOxRigBKMU7FGKAG4oxTsUYoATFGKdijFADcUuKXFLigBuK7v4Tf8hPXf+uVr/OauGxXR+BNftfD2vXP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oYMPhlRg3Fwx9RGuP1NaEGj2MHSBXPrJ8386vUUzNyb3EVQqgKAAOgApaKKBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVBLZ283+shUn1AwfzFT0VSk4u6YjNk0aJv9VIyfXkVVk0i5T7m2Qexwf1rcorphjK0etyXCLOYkglh/wBbGy+5HH51HXV1BJZW8v34Vz6gYP6V1wzD+aJDp9jnKK15tHiwTFIyd8HmsqVPKmKZzg9a7aWIhV+EzcWtxtFFFdBIlFLSUCP/2Q==)

Fonte: elaborado pelo autor.

A subtela de multiplicação (Figura 11) apresenta a matriz anterior, campos para inserir dados da matriz com que será feito o cálculo e a matriz resultante do cálculo. Nessa subtela existe um botão que realiza a multiplicação, um botão para confirmar as alterações feitas na matriz inicial e um botão voltar que fecha a subtela.

Figura 11 - Subtela de multiplicação

![Teclado de computador

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGJydW5vIGdpYmljb3NraQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNjQAAJKSAAIAAAADNjQAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjE6MTI6MDYgMjE6NTA6MTkAMjAyMToxMjowNiAyMTo1MDoxOQAAAGIAcgB1AG4AbwAgAGcAaQBiAGkAYwBvAHMAawBpAAAA/+ELImh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMTItMDZUMjE6NTA6MTkuNjM1PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPmJydW5vIGdpYmljb3NraTwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAGtBAQDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkK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Fonte: elaborado pelo autor.

Ao pressionar o botão de splines na tela inicial, é aberta a tela de splines, que apresenta um campo que permite selecionar a quantidade de pontos de apoio que formarão a curva de spline, um campo que pode ser inserida a quantidade de pontos na spline, diversos campos para cada ponto de apoio existente no qual é possível alterar seus valores, existe um campo voltar que volta para a tela inicial além da própria cena em si, onde são visíveis os pontos de apoio, a spline gerada e os seus pontos. As splines apresentam como padrão, o formato de uma forma geométrica dependendo da quantidade de pontos de controle, como por exemplo, um octógono aparece ao selecionar 8 pontos de controle, como pode ser visto na Figura 12.

Figura 12 - Tela de splines

Gráfico, Gráfico de radar

Descrição gerada automaticamente

Fonte: elaborado pelo autor.

# RESULTADOS

De modo a ampliar o seu caráter científico, todos os TCCs devem apresentar e discutir resultados não limitados à comparação com os trabalhos correlatos. Devem ser apresentados os casos de testes do software, destacando objetivo do teste, como foi realizada a coleta de dados e a apresentação dos resultados obtidos, preferencialmente em forma de gráficos ou tabelas, fazendo comentários sobre os mesmos. Também é sugerida a comparação com os trabalhos correlatos apresentados na fundamentação teórica.

# CONCLUSÕES

As conclusões devem refletir os principais resultados alcançados, realizando uma avaliação em relação aos objetivos previamente formulados. Deve-se deixar claro se os objetivos foram atendidos, se as ferramentas utilizadas foram adequadas e quais as principais contribuições do trabalho sociais ou práticas para o seu grupo de usuários bem como para o desenvolvimento científico e ou tecnológico da área.

Deve-se incluir também as limitações e as possíveis extensões do TCC.

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APÊNDICE A – DIAGRAMAS DE ESPECIFICAÇÃO

É fundamental que todo projeto apresente alguma forma de especificação do que foi desenvolvido. A descrição é opcional. Assim, **este apêndice deve conter os diagramas de especificação que não couberam ao longo do texto**. Os diagramas devem conter legendas numeradas na sequência do artigo.

Cada apêndice deve iniciar em uma nova página.

APÊNDICE B – XXX

Podem ser inseridos outros apêndices no artigo tais como códigos de implementação, telas de interface, instrumentos de coleta de dados, entre outros. **Apêndices são** **textos elaborados pelo autor** a fim de complementar sua argumentação. Os apêndices são identificados por letras maiúsculas consecutivas, seguidas de um travessão e pelos respectivos títulos. Deve haver no mínimo uma referência no texto anterior para cada apêndice. Colocar sempre um preâmbulo no apêndice. Caso existam tabelas ou ilustrações, identifique-as através da legenda, seguindo a numeração normal das legendas do artigo.

ANEXO A – DESCRIÇÃO

Elemento opcional, **anexos são documentos não elaborados pelo autor**, que servem de fundamentação, comprovação ou ilustração, como mapas, leis, estatutos, entre outros. Os anexos são identificados por letras maiúsculas consecutivas, seguidas de um travessão e pelos respectivos títulos. Deve haver no mínimo uma referência no texto anterior para cada anexo. Colocar sempre um preâmbulo no anexo. Caso existam tabelas ou ilustrações, identifique-as através da legenda, seguindo a numeração normal das legendas do artigo.

# DESCRIÇÃO DA FORMATAÇÃO

A seguir são apresentadas observações gerais sobre o texto do artigo do Trabalho de Conclusão de Curso (TCC). **Observa-se que esta descrição deve ser retirada do texto final.**

Na confecção do texto deve-se:

1. usar frases curtas. Segundo Teodorowitsch (2003, p. 3), “Frases com mais de duas linhas aumentam o risco de o leitor não compreender a ideia ou de entendê-la de forma equivocada.”;
2. usar linguagem impessoal (usar a terceira pessoa do singular) e verbo na voz ativa (a ação é praticada pelo sujeito), com conexão entre os parágrafos;
3. não usar palavras coloquiais;
4. não usar palavras repetidas em demasia;
5. usar verbos no presente quando for referir-se a partes do trabalho que já se encontram disponíveis no texto;
6. destacar palavras em língua estrangeira em itálico, conforme descrito abaixo:
   1. nome de software, ferramenta, aplicativo, linguagem de programação, plataforma, empresa: não deve ser escrito em itálico (exemplos: Delphi 7, Pascal, Object Pascal, Java, JavaScript, Java 2 Micro Edition, Basic, Microsoft Visual C++, C, Windows, Linux, MySQL, Oracle, Eclipse 3.0, Enterprise Architect, Rational Rose, Microsoft, Sun Microsystems),
   2. citações: o sobrenome do autor ou o nome da instituição responsável pela autoria do documento citado não deve ser escrito em itálico (exemplo: Segundo Sun Microsystems (2004), ...),
   3. palavras em língua estrangeira encontradas nos dicionários nacionais: não devem ser grafadas em itálico (exemplos: software, hardware, web, Internet),
   4. demais palavras em língua estrangeira: devem ser escritas em itálico (exemplos: *palmtop*, *classpath*, *play*, etc.). No entanto, Teodorowitsch (2003, p. 7), sugere que alguns termos em língua inglesa devem ser substituídos por termos em português (exemplos: núcleo em vez de *kernel*, aprendizagem de máquina em vez de *machine learning*, etc.);
7. observar as seguintes regras quanto ao uso de siglas:
   1. colocar as siglas entre parênteses precedidas pela forma completa do nome, quando aparecem pela primeira vez no texto (exemplos: Associação Brasileira de Normas Técnicas (ABNT), Trabalho de Conclusão de Curso (TCC)). Caso exista uma lista de siglas na parte pré-textual do volume final, pode-se usar somente a sigla, quando aparecer pela primeira vez no texto,
   2. usar apenas a sigla nas demais ocorrências no texto,
   3. escrever as siglas em letras maiúsculas e não usar itálico,
   4. escrever o plural das siglas sem apóstrofo (exemplos: PCs, APIs, PDAs) e determinar o gênero da sigla conforme o gênero do primeiro substantivo do seu nome (exemplo: o TCC – o Trabalho de Conclusão de Curso).

## formatação

A formatação geral para apresentação do documento, descrita na NBR 14724 (ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS, 2011), é a seguinte:

1. o texto divide-se em capítulos, seções e subseções (até cinco divisões);
2. a apresentação de citações em documentos deve seguir a NBR 10520 (ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS, 2002b);
3. a descrição das referências bibliográficas deve estar de acordo com a NBR 6023 (ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS, 2002a).

Observa-se ainda que todo capítulo, seção ou subseção deve ter no mínimo um texto relacionado.

O artigo deve ser digitado usando as fontes e formatação de parágrafos deste modelo, indicadas no Quadro 2.

Quadro – Estilos do modelo

|  |  |
| --- | --- |
| **USO** | **FORMATO** |
| título de capítulo ou seção primária (1) | TF-TÍTULO 1 (Times New Roman, 10pt, negrito, maiúsculas) |
| título de seção secundária (1.1) | TF-TÍTULO 2 (Times New Roman, 10pt, maiúsculas) |
| título de seção terciária (1.1.1) | TF-Título 3 (Times New Roman, 10pt, minúsculas, exceto a 1a letra da 1a palavra do título e de nomes próprios) |
| título de seção quaternária (1.1.1.1) | TF-Título 4 (mesma formatação seção ternária) |
| título de seção quinária (1.1.1.1.1) | TF-Título 5 (mesma formatação seção ternária) |
| texto | TF-TEXTO (Times New Roman, 10pt) |
| citação direta com mais de três linhas | TF-CITAÇÃO (Times New Roman, 9pt, com recuo de 4 cm) |
| itens (alíneas) | ver descrição abaixo (Times New Roman, 10pt) |
| referência bibliográfica | TF-REFERÊNCIA ITEM (Times New Roman, 10pt, alinhada à margem esquerda) |
| fonte, legenda, texto de quadro/tabela e figura | TF-FONTE (Times New Roman, 9pt, centralizada)  TF-LEGENDA, (Times New Roman, 10pt, centralizada)  TF-TEXTO- QUADRO (Times New Roman, 10pt)  TF-FIGURA (Times New Roman, 10pt, centralizada) |

Fonte: elaborado pelo autor.

O espaçamento, também definido no modelo, deve ser conforme indicado no Quadro 3.

Quadro - Espaçamento

|  |  |
| --- | --- |
| **USO** | **ESPAÇAMENTO** |
| título de capítulo ou seção primária (1)  título de seção secundária (1.1)  título de seção terciária (1.1.1)  título de seção quaternária (1.1.1.1)  título da seção quinária (1.1.1.1.1) | espaço simples, com 12pt antes do parágrafo |
| texto | espaço simples, com 6 pt antes do parágrafo |
| citação direta com mais de três linhas | espaço simples com 6pt antes e depois do parágrafo |
| itens (alíneas) | espaço simples, com 6 pt antes do parágrafo |
| referência bibliográfica | espaço simples, com 6 pt antes do parágrafo |
| legenda e texto de ilustração/tabela | espaço simples, com 6 pt antes do parágrafo |
| fonte | espaço simples, com 0pt antes do parágrafo |

Fonte: elaborado pelo autor.

Na disposição gráfica de itens (alíneas) devem ser observados os seguintes quesitos:

1. o texto que antecede os itens termina com dois pontos;
2. cada item deve iniciar com uma letra minúscula seguida de fecha parênteses e terminar com um ponto e vírgula, sendo que o último item termina com ponto (FORMATO: TF-ALÍNEA);
3. o texto de cada item inicia com letra minúscula, exceto nomes próprios;
4. quando contiver subitens, os mesmos devem iniciar com hífen colocado sob a primeira letra do texto do item correspondente (FORMATO: TF-SUBALÍNEA nível 1 ou TF-SUBALÍNEA nível 2, conforme o caso). Nesse caso, cada subitem deve terminar com uma vírgula, exceto o último que termina com ponto ou com ponto e vírgula.

Segue um exemplo:

1. cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula (FORMATO: TF-ALÍNEA);
2. cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula (FORMATO: TF-ALÍNEA):
   1. cada subitem (nível 1) inicia com letra minúscula, cada subitem (nível 1) inicia com letra minúscula (FORMATO: TF-SUBALÍNEA nível 1):
      1. cada subitem (nível 2) inicia com letra minúscula, cada subitem (nível 2) inicia com letra minúscula (FORMATO: TF-SUBALÍNEA nível 2),
      2. cada subitem (nível 2) inicia com letra minúscula, cada subitem (nível 2) inicia com letra minúscula (FORMATO: TF-SUBALÍNEA nível 2),
   2. cada subitem (nível 1) inicia com letra minúscula, cada subitem (nível 1) inicia com letra minúscula (FORMATO: TF-SUBALÍNEA nível 1);
3. cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula, cada item inicia com letra minúscula (FORMATO: TF-ALÍNEA).

#### Exemplo de título de seção quaternária [FORMATO: TF-TÍTULO 4]

Formato: TF-TEXTO.

##### Exemplo de título de seção quinária [FORMATO: TF-TÍTULO 5]

Formato: TF-TEXTO.

### Formatação de quadros, figuras e tabelas

Um quadro contém apenas informações textuais, que podem ser agrupadas em colunas. Uma figura contém, além das informações textuais, pelo menos um elemento gráfico. Uma tabela é uma apresentação tabular de informações **numéricas** relacionadas.

Os quadros, figuras e tabelas são identificados na parte superior por uma legenda (a qual deve estar centralizada) composta pela palavra designativa (Figura, Quadro ou Tabela, conforme o caso), seguida de seu número em algarismo arábico (usar numeração progressiva, uma sequência para os quadros, outra para as figuras e outra para as tabelas), de hífen e do título. As ilustrações devem:

1. aparecer centralizadas no texto;
2. estar delimitadas por uma moldura simples (com exceção das tabelas não quais não devem ser usadas bordas (linhas) verticais em suas extremidades);
3. aparecer numa única página (quando o tamanho não exceder o da página), inclusive a legenda;
4. serem inseridas o mais próximo possível do trecho a que se referem pela primeira vez.

Toda ilustração deve ter fonte, centralizada. Quando foi o próprio autor que fez a ilustração, deve inserir o texto: “Fonte: elaborado pelo autor”.

Observa-se que quando um código fonte for descrito dentro de um quadro, deve-se utilizar letra do tipo courier new 9pt. (TF-CÓDIGO-FONTE)

Exemplos de como se deve referenciar uma figura, um quadro e uma tabela bem como descrevê-los são mostrados a seguir.

Um exemplo de uma rede de Petri pode ser visto na Figura 1.

Figura – Exemplo de uma rede de Petri



Fonte: Schubert (2003, p. 18).

Um exemplo de código fonte gerado a partir de uma especificação pode ser visto no Quadro 4.

Quadro – Funções que verificam se as transições estão sensibilizadas

|  |
| --- |
| Function TEstruturaMalha.T1Sensibilizada: boolean;  begin  result := (Fp2 and Fp4);  end;  function TEstruturaMalha.T2Sensibilizada: boolean;  begin  result := (Fp1 and Fp3);  end;  function TEstruturaMalha.T3Sensibilizada: boolean;  begin  result := (Fp2 and Fp4);  end; |

Fonte: Schubert (2003, p. 63).

A quantidade de trabalhos finais realizados no Curso de Ciência da Computação (de 2010 até 2014) é apresentada na Tabela 1.

Tabela – Trabalhos finais realizados no Curso de Ciência da Computação

|  |  |  |  |
| --- | --- | --- | --- |
| Ano | Estágios | TCC´s | Totais |
| 2010/1 | 0 | 16 | 16 |
| 2010/2 | 0 | 21 | 21 |
| 2011/1 | 0 | 25 | 25 |
| 2011/2 | 0 | 23 | 23 |
| 2012/1 | 0 | 23 | 23 |
| 2012/2 | 0 | 22 | 22 |
| 2013/1 | 0 | 25 | 25 |
| 2013/2 | 0 | 16 | 16 |
| 2014/1 | 0 | 18 | 18 |
| 2014/2 | 0 | 13 | 13 |
|  | **0** | **202** | **202** |

Fonte: elaborado pelo autor.

### Exemplos de citações retiradas de documentos ou de nomes constituintes de uma entidade

A apresentação de citações em documentos deve seguir a NBR 10520 (ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS, 2002b). O sistema a ser usado é o alfabético. Exemplos de citações são: “Numa publicação recente (SEBESTA, 2000) é exposto ...” e “Segundo Silva *et al*. (1987), execução controlada de programas é ...”.

Quando a citação referir-se a uma parte específica do documento consultado, especificar no texto do artigo a(s) página(s). Esta(s) deverá(ão) seguir a data, separada(s) por vírgula(s) e precedida(s) pelo designativo que a(s) caracteriza(m). Como exemplo, mostra-se: “(SCHIMT, 1999, p. 50)” ou “... visto que Schimt (1999, p. 50) implementou ...”.

As citações diretas (transcrição textual de parte da obra do autor consultado), no texto, com mais de três linhas, devem ser destacadas com recuo de 4 cm da margem esquerda, com letra menor que a do texto utilizado e sem as aspas (FORMATO: TF-CITAÇÃO), conforme o exemplo a seguir.

A Associação Brasileira de Normas Técnicas (ABNT) é o Fórum Nacional de Normalização. As Normas Brasileiras, cujo conteúdo é de responsabilidade dos Comitês Brasileiros (ABNT/CB) e dos Organismos de Normalização Setorial (ABNT/ONS), são elaboradas por Comissões de Estudo (CE), formadas por representantes dos setores envolvidos, delas fazendo parte: produtores, consumidores e neutros (universidades, laboratórios e outros). (ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS, 2002b, p. 1).

Quando da citação de um nome (identificador) constituinte de uma entidade ou de um elemento de interface em um texto, deve-se utilizar o tipo de letra *courier new*, com tamanho nove (9). Para facilitar a formatação, existe o estilo de palavra denominado TF-COURIER9. Como exemplo cita-se nome de classe, atributo ou método. A seguir são apresentados exemplos.

As classes TTabelaTransicao e TExpressaoRegular são classes de interface, porém estão sendo consideradas como classes de domínio da aplicação.

Ao clicar no botão Confirmar, o software abre uma nova tela.