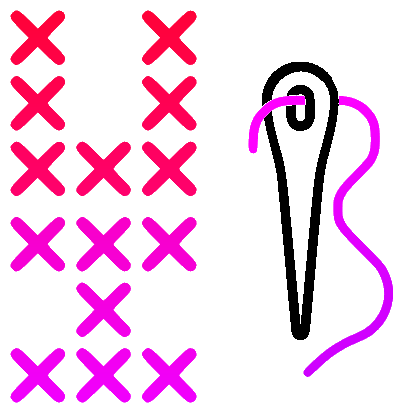


BrodUI



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M1 Informatique



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SOMMAIRE

# I) Introduction

Le sujet consiste à créer un programme produisant un patron permettant la broderie par point de croix à partir d’une image de référence. La broderie par point de croix consiste à créer des croix de fil à espace régulier créant au finale une image. L’image ainsi formée est comparable à une image numérique avec chaque croix représentant un pixel. Un patron de broderie indique quel fil utiliser à chaque “pixel”. Dans ce programme, nous devons d’abord redimensionner l’image de référence afin d’obtenir un nombre de croix humainement réalisable puis segmenter l’image de façon à n’avoir qu’un certain nombre de couleurs de fils différents et finalement de trouver les références DMC de fil dont la couleur est la plus proche de chacune des couleurs de l’image segmentée.

Il serait également intéressant pour le brodeur de connaître la longueur de fil de chaque couleur ainsi que les couleurs nécessaires. Au terme du programme le brodeur pourra obtenir une interface présentant le patron de broderie de l’image, ainsi que les informations précédentes concernant les fils. De plus un export PDF lui permettra d’exporter les informations ainsi obtenues hors de l’application.

La première barrière pour un brodeur qui souhaite obtenir un patron par rapport à une image donnée est la taille de celle-ci. Il est donc ainsi primordial de commencer par un recadrage de celle-ci afin d’obtenir un patron humainement faisable. Ensuite vient le problème des couleurs. En effet de manière courante, nous utilisons des couleurs au format RGB (ou RVB), pourtant dans le domaine de la broderie, le format utilisé est le format DMC. L’enjeu de ce point est donc de convertir le RGB en DMC en prenant les couleurs les plus proches. De la même manière que pour la taille, le nombre de couleurs est une grande contrainte pour le brodeur. En effet plus il y aura de couleurs différentes, plus la broderie sera longue et fastidieuse, et plus il faudra de couleurs différentes, plus la broderie sera chère à réaliser (par exemple retirer les couleurs peu représentées dans l’image).

Présentation du cahier des charges

BrodUI est un projet de traitement d’image codé en C# portant sur la création d’un patron de broderie depuis une image. Pour cela il est nécessaire de réduire son nombre de couleurs afin que la brodeuse ou le brodeur n’ai pas besoin d’un nombre trop élevé de fils différents. BrodUI est un projet étudiant créé par 6 personnes, chacune ayant son propre rôle. Nous retrouvons donc :

* Optimisations et accessibilité : Loïs PAZOLA
* Développement logiciel et UI : Samuel LACHAUD
* Implémentation de l’algorithme de réduction du nombre de couleurs : Corentin DEBRABANT - Vincent GAY
* Translation des modèles de couleurs : Orlane TISSERAND - Zeina Hélène AL-HALABI
* Calcul de la longueur de fil : Zeina Hélène AL-HALABI

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## Qu'est-ce que BrodUI

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Pour régler le problème du nombre de couleurs, on regroupe les différentes couleurs de l’image et on en élit une représentante pour chacun de ces groupes. Pour faire cela, on peut utiliser plusieurs algorithmes. Un des premiers envisagés est celui de l’accroissement de zones appliquées à des images en couleurs, celui-ci ne sera finalement pas choisi au profit d’autres solutions. Le premier de ces algorithmes est celui de **K-Means** qui permet d’obtenir un nombre demandé de représentants des couleurs. Le deuxième est **Mean-Shift**, une version de K-Means où le nombre de représentants n’est pas fixé. Un troisième algorithme est envisagé, il s’agit de celui nommé **Fuzzy C-Means** qui est similaire à K-Means. **Nous avons finalement choisi d’utiliser l’algorithme K-Means**.

Une fois les algorithmes appliqués, nous obtenons donc le nombre de couleurs, leurs codes DMC et le patron. Nous pouvons donc afficher au brodeur les informations souhaitées. C’est ici que la partie graphique de l’application entre en jeu. L’interface permet d’afficher un tableau qui est le patron de broderie, à côté, on retrouve l’image résultat que l’on doit avoir après avoir brodé le patron. En dessous, nous retrouvons la légende de chacun des symboles du patron qui forment les différentes couleurs de fils.

L’application BrodUI (mélange de **Brod**erie et de **UI** signifiant « User Interface ») doit répondre à un certain nombre de critères afin d’être utilisable par un utilisateur, de lui permettre de s’en servir facilement, et potentiellement d’être utilisé dans un usage professionnel. Voici donc les différents critères que doit respecter BrodUI :

* Une **page de tutoriel** doit être présente afin d’aider l’utilisateur à **mieux comprendre le logiciel** et son fonctionnement. Le but étant qu’un utilisateur lambda puisse utiliser l’application sans avoir de connaissances dans le domaine.
* L’interface utilisateur doit être **accueillante**, **explicite** et **accessible**.
* Une **image** doit pouvoir être chargée dans l’application, être **redimensionnée**
* L’utilisateur doit pouvoir **visualiser le patron de broderie** et pouvoir **l’exporter en PDF** afin de l’imprimer.
* L’utilisateur doit pouvoir choisir la **langue** de l’application (Français ou Anglais) et le **thème** de l’application.

Elle doit également répondre à des critères d’analyse de données, en effet, l’application permet également d’analyser les résultats d’un algorithme de réduction de couleur dans une image avec différents paramètres. Voici donc les différents critères d’analyse :

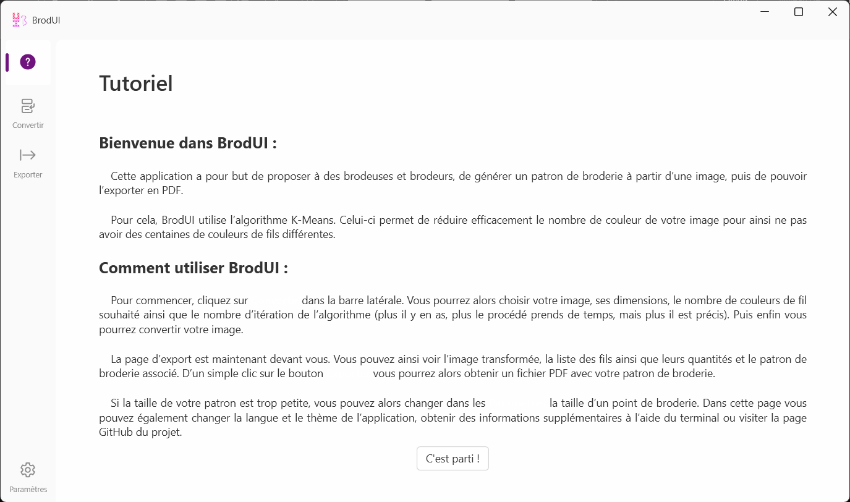
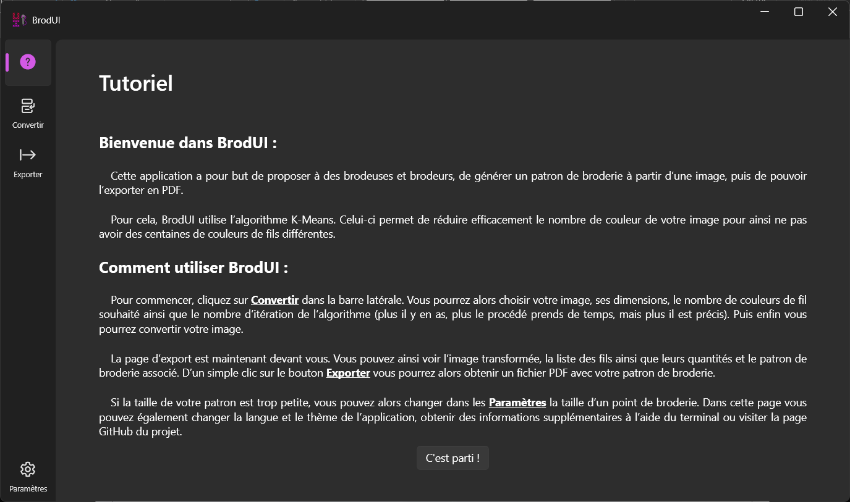
* L’utilisateur doit pouvoir activer le « **Terminal** » dans les paramètres afin d’obtenir les différentes informations d’actions sur l’interface et les calculs effectués
* L’algorithme de réduction de nombre de couleur doit implémenter l’algorithme **K-Means**.
* Avant l’exécution de l’algorithme K-Means, l’utilisateur doit pouvoir choisir le **nombre de couleurs** souhaité, le **nombre d’itérations** de l’algorithme ainsi que le modèle de couleurs (**RGB** ou **HSL**)

Le cahier des charges prends également des directives pour les développeurs, ainsi nous devons prendre en compte les points suivants :

* En implémentant l’algorithme **K-Means**, les personnes chargées de ce point doivent avoir une bonne connaissance de celui-ci, être capable de **l’expliquer** et de le **manipuler** (le but n’est pas uniquement de l’implémenter, mais d’en comprendre le fonctionnement et les enjeux).
* Les couleurs des fils de broderie sont (dans la majorité des cas) au format [DMC](https://www.dmc.com). Il est donc nécessaire de pouvoir transformer du **RGB** ou du **HSL** en **DMC**.
* Le calcul de la longueur de fil doit prendre en compte le fait que nous utilisons **du point du croix** et le passage des fils **derrière le patron**.

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Présentation de l’application



BrodUI est réalisé sur Windows 11 et pour Windows 10 ou 11 avec langage C#. l’interface graphique utilisera le Framework WPF (tous deux disponibles sur [Visual Studio de Microsoft](https://visualstudio.microsoft.com/)). Pour la partie graphique, l’interface utilisera [WPFUI](https://wpfui.lepo.co/) pour adapter l’application WPF à la charte graphique de Windows 11. En effet les applications comme le Microsoft Store, la calculatrice Windows, ou bien Paint utilisent actuellement WPFUI, ainsi BrodUI s’intègre donc bien dans l’environnement Windows et utilise les thèmes et couleurs d’accentuations que vous avez définit pour toutes les applications dans les paramètres Windows Ainsi, en l’absence de contrainte quant à la plateforme d’exécution, nous avons choisi que l’application sera uniquement disponible sur Windows. BrodUI se compose en 4 pages différentes. Nous allons vous les lister et montrer ici :

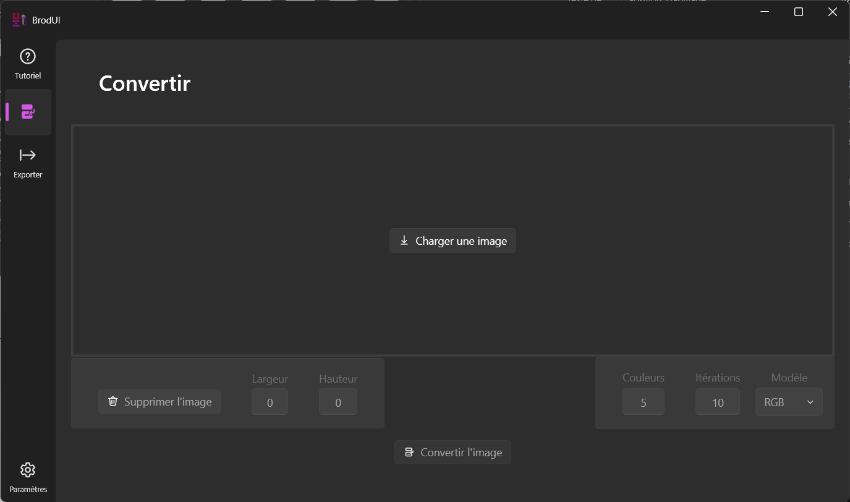
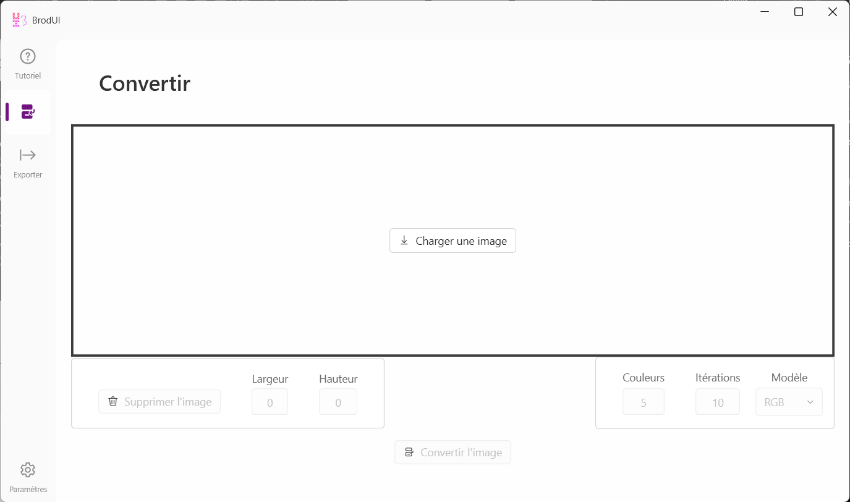
**Page de tutoriel :**



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Cette page est la page de conversion d’image, l’utilisateur peut charger une image, définir les paramètres puis lancer la conversion



**Page de conversion :**

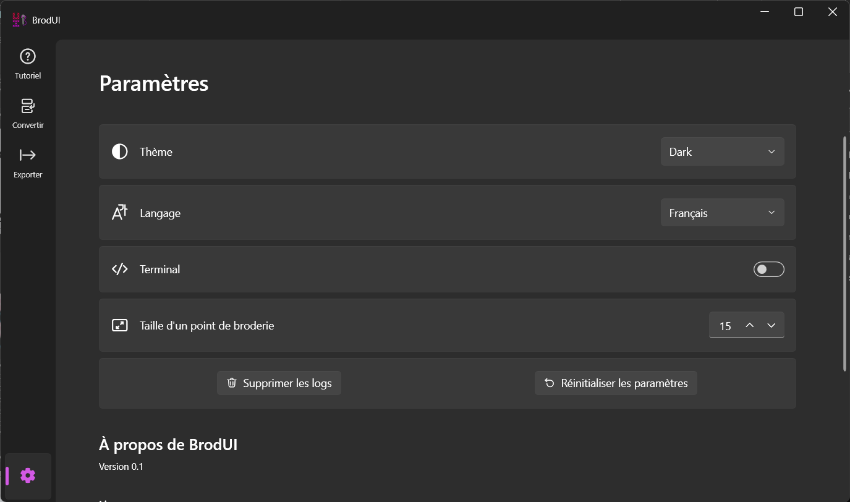
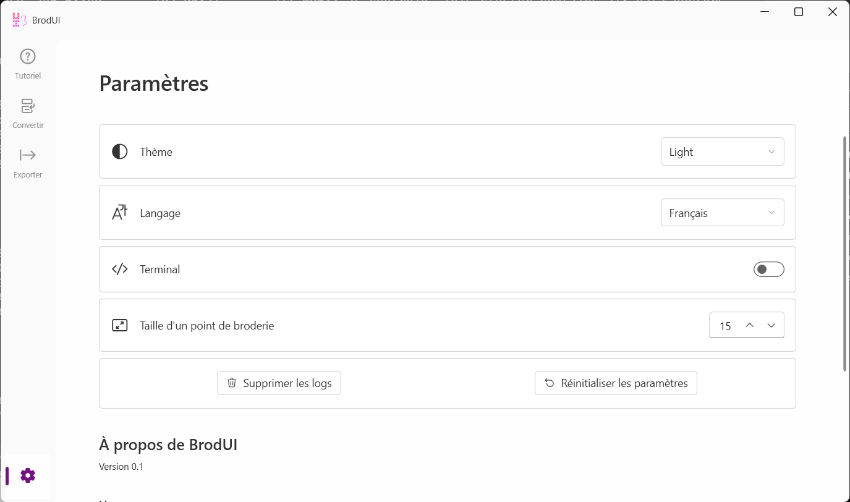
Cette page est la page d’accueil et permets d’expliquer l’utilisation de l’application (cf. Cahier des charges)

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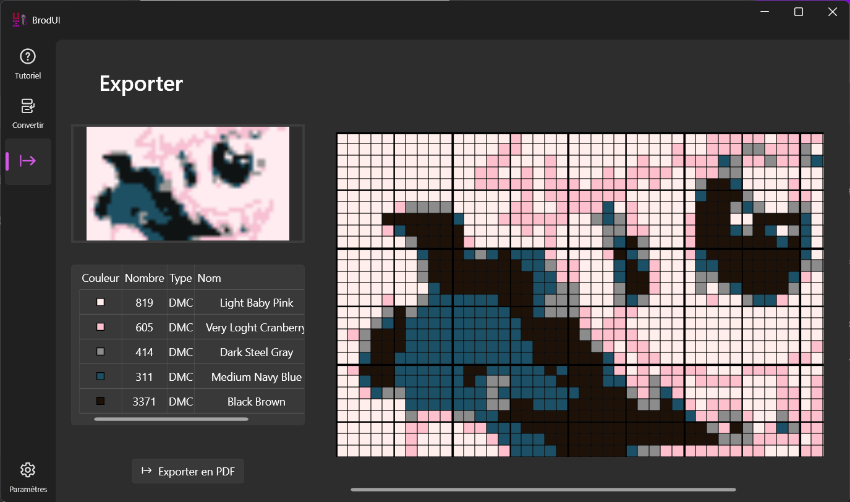
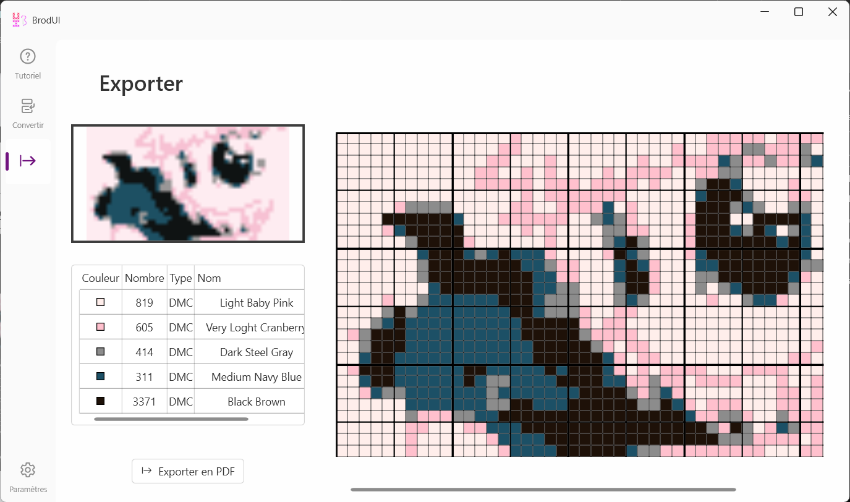


Cette page permet de paramétrer l’application en choisissant des options pour modifier l’expérience utilisateur.



**Page d’export :**

Cette page permet d’afficher le patron de broderie de l’image que l’on a chargé. Elle permet également d’exporter le patron en PDF.



**Page d’export :**

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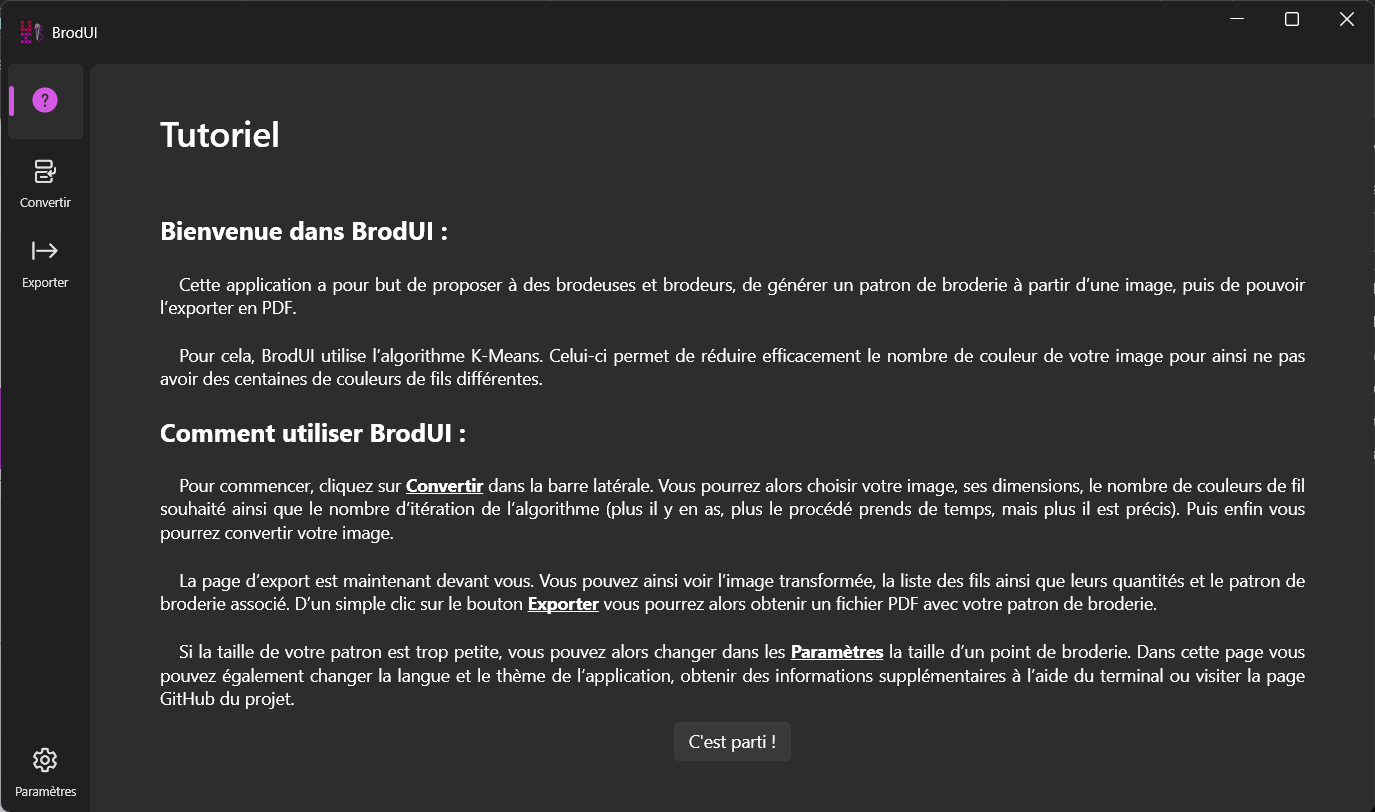
Dans cette partie, nous allons voir en profondeur les différentes pages de notre application, leurs fonctionnalités et des interactions utilisateurs. Nous expliquerons uniquement les pages car le bandeau de menu ainsi que la « TitleBar » de l’application sont générés automatiquement (du moins choisis par le développeur) à la création de l’application WPFUI.

# II) Fonctionnement de l’application

Pages de tutoriel et de paramètres

Nous allons commencer par la page de tutoriel. En effet celle-ci est assez basique et ne comporte pas beaucoup d’interactions importantes. Le contenu de celle-ci se concentre sur l’explication du sujet et de l’utilisation de l’application. Ainsi pour permettre à l’utilisateur de voir de quoi parle chaque partie de ce tutoriel, des liens ont été mis dans celui-ci afin de naviguer facilement. Ces liens ont une utilisation semblable au bandeau de menu situé à gauche de la page. On retrouve également un bouton en bas de la page permettant d’aller directement de la même manière la page de conversion :

**TitleBar**



**Menu de navigation**

**Lien vers les pages**



**Bouton vers la page convertir**

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Ensuite nous avons la page des paramètres, celle-ci est accessible depuis le menu de navigation ou depuis la page de tutoriel. Dans cette page, vous retrouverez des paramètres basiques comme le choix du thème, ou bien le langage. Mais vous retrouverez également le choix de la taille du point de broderie, en effet un grand patron peut nécessiter un point de broderie plus petit, etc. Ici vous pouvez donc choisir cette taille (même après avoir convertit votre image). On retrouve également un Terminal activable à la demande. Celui-ci est plutôt utile pour la partie analyse de données de K-Means, mais également pour les utilisateurs expérimentés souhaitant connaitre les différentes itérations de l’algorithme, du temps que prends celui-ci ou de toutes autres interactions avec l’interface. Enfin, qui dit terminal, dit logs. En effet tout ce qui est marqué dans le terminal est horodaté et stocké dans un fichier de log, celui-ci étant rechargé dans le terminal au lancement du logiciel. Vous avez donc deux boutons servant à réinitialiser les logs et les paramètres.

Une image contenant texte, capture d’écran, logiciel, Logiciel multimédia

Description générée automatiquement



**Paramètres de BrodUI**

**Boutons pour réinitialiser les logs et les paramètres**

Une image contenant texte, capture d’écran, Police

Description générée automatiquement

Nous retrouvons également en bas de ces paramètres le numéro de version de BrodUI, les liens vers le GitHub du projet, vers la release GitHub et vers le logo original avant modification. On retrouve également les liens vers les bibliothèques externes :

**Liens vers le logo et GitHub**

**Bibliothèque WPFUI pour l’interface :   
https://wpfui.lepo.co/  
Bibliothèque itext7 pour le PDF :   
https://github.com/itext/itext7-dotnet**

Pages de conversion

Nous sommes maintenant (après le tutoriel) sur la page de conversion. Celle-ci nous permet de charger une image de notre choix (au format, JPG, GIF, BMP ou PNG). Puis l’utilisateur choisis la taille de l’image (la hauteur et la largeur ne peux pas être inférieure à 20 pixels). Le redimensionnement de l’image garde le ratio de l’image. Si vous voulez changer d’image, vous pouvez appuyer sur le bouton prévu à cet effet. Une fois la partie image remplie, il vous reste à remplir la partie des paramètres K-Means. Pour cela, il faut tout d’abord donner le nombre de couleurs souhaité sur l’image résultante (après traitement). Il est important de choisir un nombre de couleur inférieur au nombre actuel de couleurs sur l’image sinon K-Means ne pourra fournir un résultat convainquant. Enfin, il reste à choisir le nombre d’itérations de K-Means (plus le nombre est élevé, plus le résultat est précis, mais plus c’est long. La valeur par défaut étant 10, c’est la valeur que nous préconisons). Enfin le choix du modèle de couleur est lui aussi très important car le résultat différera légèrement.

Par un appui sur le bouton « Convertir » une fois avoir saisi toutes les informations nécessaires, vous pourrez apprécier une barre de chargement des différentes itérations de K-Means demandées (10% par 10% si vous avez choisis 10 itérations). Le processus s’effectue en arrière-plan, il est donc possible de naviguer vers une autre page pendant le traitement. De plus, sur Windows 11, il est possible d’ajouter des animations en dessous du logo de l’application dans la barre des tâches, il y en as donc une qui indique le processus.

![Une image contenant capture d’écran, blanc, conception, graphique vectoriel

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RC+RXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAExAAIAAAAsAAAIVgEyAAIAAAAUAAAIgodpAAQAAAABAAAIluocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1pY3Jvc29mdCBXaW5kb3dzIFBob3RvIFZpZXdlciAxMC4wLjE5MDQxLjEAMjAyMTowNToxNyAxNzo1MToyOAAAAeocAAcAAAgMAAAIqAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ScnqadQAooFAoFAC0opKUUAKKWkFLQAtKKSlFAC0tJQzBRmgBVXe4XsvJ+tWxUUMexeep5NTCkMKBRQKQC0UUUAFFFFABRRUMxLARDq/H4d6ACL5t0p/jPH0HT/GpqAABgdKKAIesjn0CipKjTne3q5/TipKYBS0lLSAKWkpaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooASiiigApKWkoAKKQ0lMBaSiikAlFFFMApKOKKBCGkpTSUDCg0ZpDQIKSlpKAQUUlGaAEoNFBoASiikoADRRRQAlJmlpDTATNFFFAAaSlNJQAhpKU0hoAKQ0UUABpKDRQAmaSlNJQAUGkzRTADSUppKAEozQaSgAoNJRQAUlLSUAIaKDSUAOpRSUUALRSCloAUUtJmjNAC5pabTqAAUtIKXNABmlpKUUAFOptLmkAtApKUUwFpaSlpAFFFFAC8Dk1EW3HP5Urtu4HQfrSCmAU6m06kAooFAoFAC0opKUUAKKWkFLQAtKKSlFAC0qL5kgH8K8n60xmwM9+1WYY9i89TyaTAlpRSUopDCgUUCgBaKKKACiiigAqGL52aXsflX6D/GlmJIEan5nOM+g7mpAoUBR0AwKAFpGbaCx7AmlqOY/IV/vEL+dADYxhFHfAqSm06mwClpKWkAUtJS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAlFFFABSUtJQAhpKU0lMAooopAJSGlpDTAKKKKAENJSmkoEJRRRQMKSlpKBCGkpTSUDCg0UGgQlJS0lMAopDSUAFBooNACUmaWkoAKKSjNAAaQ0UGgBKTNLSGgAopKM0wA0hooNIBKQ0tIaYBRSUZoADSUUZoASkNLSGgApM0tNoAWkoNJQAtKKSlFACilpKM0CFoFAoFAxaWkooAdRSCloAWlFJRQAtFJS0AKKUUgpaQC0UmaWgAFNd/4R17+1Kz7R71FTAdSikpRQAU6m06kAooFAoFAC0opKUUAKKWkFLQAtKKSkJPQdTwKAHxr5j7j91en1q2KZGgRQo7U8Uhi0opKUUgCgUUCgBaKKKACiiopicBF+85x9B3NACR/OzSnp91foOp/GpqRVCgKOABgUtABUMhy6L6ZY/yqaoR80jt6YX8v/wBdADqdTadTYBS0lLSAKWkpaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooASiiigApKWkoAQ0lKaSmAUUUUgEpDS0hpgFFFFACGkpTSUCEoopDQMWkoooEIaSlNJQAmaKKKAYUlLSU0AhpKU0lABmkNFFABSUtJQAhpKU0lABmkoNFABSGjNFACGkpTSUwDNJmg0UAFIaM0UAIaSlpKAA0lKaSgAzSUUhoAWm0uaSgQGkoNFMYtLmkzRSELmlpBS0DFFFJmjNAC5paSloAUUtJRmgBc0tJSigApaSloAUUtNpRSAWgsAMmk96jLbue3amAZJOTS0gpaAFpRSUooAKdTadSAUUCgUCgBaUUlKKAFFLSCloAWnwJuJkPToPpURBciMd+v0q6qhQAO1JjFpRSUooAWlFJSikAUCigUALRRRQAVDF87NN2Pyr9B/jSzMSBGv3nOPoO5qQAAAAcCgBaKKKAEJABJ6AVDGDsBPU/Mfxp0x+Tb3chfz6/pS0wCnU2nUMApaSlpAFLSUtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAJRRRQAUlLSUAIaSlNJTAKKKKQCUhpaQ0wCkzS02gAooooEJSGlpDQAUUUmaBgaSlpKBCUhpaQ0wCiiigBDSUppKAEpDS0hoAM0UUlAAaSiigBDQaDQaAEpM0tIaYBSUUZoAQ0Gig0AJSGlpDQAlFBpKAA0UUmaBBSGlpDQMSkpaSgApM0GimAtKKSlzQIWjNJmigB1ApBSikMWlzSZooAXNFAooAdSikozQAtFJS0AKKUUgprN2HWgBHbPA6CkpKWgBRS0gpaAFpRSUooAKdTadSAUUCgUCgBaUUlKKAFFBIAJNApY08x/wDZU/rQBNBHtG4/eapxSUopDClFJSigBaUUlKKQBQKKBQAtGaKhlO8iEfxct/u//X6UAEWXJmP8XC/Qf49amo6UUAFFFFAEL/NKo7Kufzp1MQ7tz/3m4+g6U+mAU6m06hgFLSUtIApaSloAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBKKKKACkpaSgBDSUppKYBmjNIaKACkNLSGgAptOptABRRRQISkNLSGgAptOptAIKKKM0AJSGlpDTAKSlpKAEooNJmgApDS0hoAKSlpKAEozQaSgAoNGaSgApDS02mAGkpTSUAGaTNBpKAFpDRmkoADSUuaSgBDRQaKAG0UUGmAZpKKTNAgNFJmjNADs0UlKKBgKWkFLSELRSUooGLS0lLQAoooFGaAFzRSUooAWlpKCwAzQAM20e5qMUZJ5NAoAWlpKWgBRS0gpaAFpRSUooAKdTadSAUUCgUCgBaUUlLkAZoAQ54UfeNXI4wihRUMEf8Ay0bqensKsikAUopKUUDClFJSigBaUUlKKQBQKKBQAMwUFj0AyajiVsGRvvOc49B2FI/7xxF/CuGb+gqagAooooAKjmYqhx1OFH1NSVDIdzqvZRu/PgUAAAAAHQU6kpaYBTqbTqGAUtJS0gClpKWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEooooAKSlpKAENJSmkpgIaKDRQAUhpaQ0AFNp1NoEIaKDRQMKQ0tIaBBTadTaAA0lKaSmMKQ0uaSgQUlLSUAIaSlNJQAZpDRSUALSUZpKAA0lKaSgBDRQaQ0AGaSijNMANJRRmkAhpDS0hpgJQaKDQAlJmlNJQAUlBpKBBQaM0maYBSUppKAENJSmkoAdSim5paAFopBS0DFFKKQUtAhaM0maWkMWikFLQAtKKSloAMgc1GWLHNDNuOOwpKAFFKKQUooAWlpKWgBRS0gpaAFpRSUooAKdTadSAUUCgUCgBaVE81gP4VPPuaaSeFH3jwKtxRiNQKAHgY4pwpKUUhhSikpRQAUopKUUALSikpRSAKa8iopY9u3qadUI/eyf7MZ/Nv8A61AD4kKDnlmOWPvUlFFABRRRQAVXQ7syf3jkfTtT5iQm0dWO386AABgdBTAKWkpaACnU2nUMApaSlpAFLSUtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAJRRRQAUlLSUAIaSlNJTAQ0UGigApDS5pKACm06m0CENFBooGGaSiigAptOptAgNJSmkoASiikNMBaSkooADSUppKAEpDS0hoASjNFJQAZooozQAhpDS0hoASkNLSGmAGkpTSUAJRmg0lABQaTNBNAAaSjNFAhDSUppKAEpDS0hpgFJmlptABRmg0lMBaUUlKKQCilpKM0AOzRmkoFIYtOptOoABS0lGaAHZpjNnj86GbHA60wUwFpaSlpAKKUUgpRQAtLSUtACilpBS0ALSikpRQAU6m06kAooyByaBSxp5rf7Kn9aAJYIj/AKxup6ewqwKTgcUopALSikpRQMKUUlKKAClFJSigBaUUlApAMldlXC/fY4X/AD7U9ECKFHb9ajj+djMenRPp6/jU1ABRRRQAUUUjMEUsegGaAIGO6Q+iDH4mn0xAQvPU8n6mn0wClpKWgAp1Np1DAKWkpaQBS0lLQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACUUUGgAzSUUUAIaSlNJTAQ0UGigQlFFFAwptOptAhDRQaKAEoopDTGLTaKKQgNJSmkoASkNLSGmAlGaKSgAoozSZoAKQ0tIaAEpKWkoADSUppKAEzSUppKACkNGaKYAaSg0UAIaQ0ppDQAlIaWkNACUlKaSgAozQaSgAzSGikpiFptLmkzQAGkoJozTAWlzTaUUgFzS0gpaAFFAoFFAC0uabmloGLmkZsD3oyBzTCc80ALSikpRQAUtJS0gFFKKQUooAWlpKWgBRS0gpaAFpRSUooAKdTaUnAzSAOWIQdT+gq7HGEUKO1RQxbRub7xqcUgClFJSigBaUUlKKBhSikpRQAUopKUUALUUh3kQj+LlvZf8A69PZlRSx6AUkKMAXYfO/J9vQfhQBKAAMDoKKKKQBRRRQAVDMdxVPfcfoP/r1NVZTvLSf3jx9B0oAfS0lLTAKWkpaACnU2nUMApaSlpAFLSUtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUA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