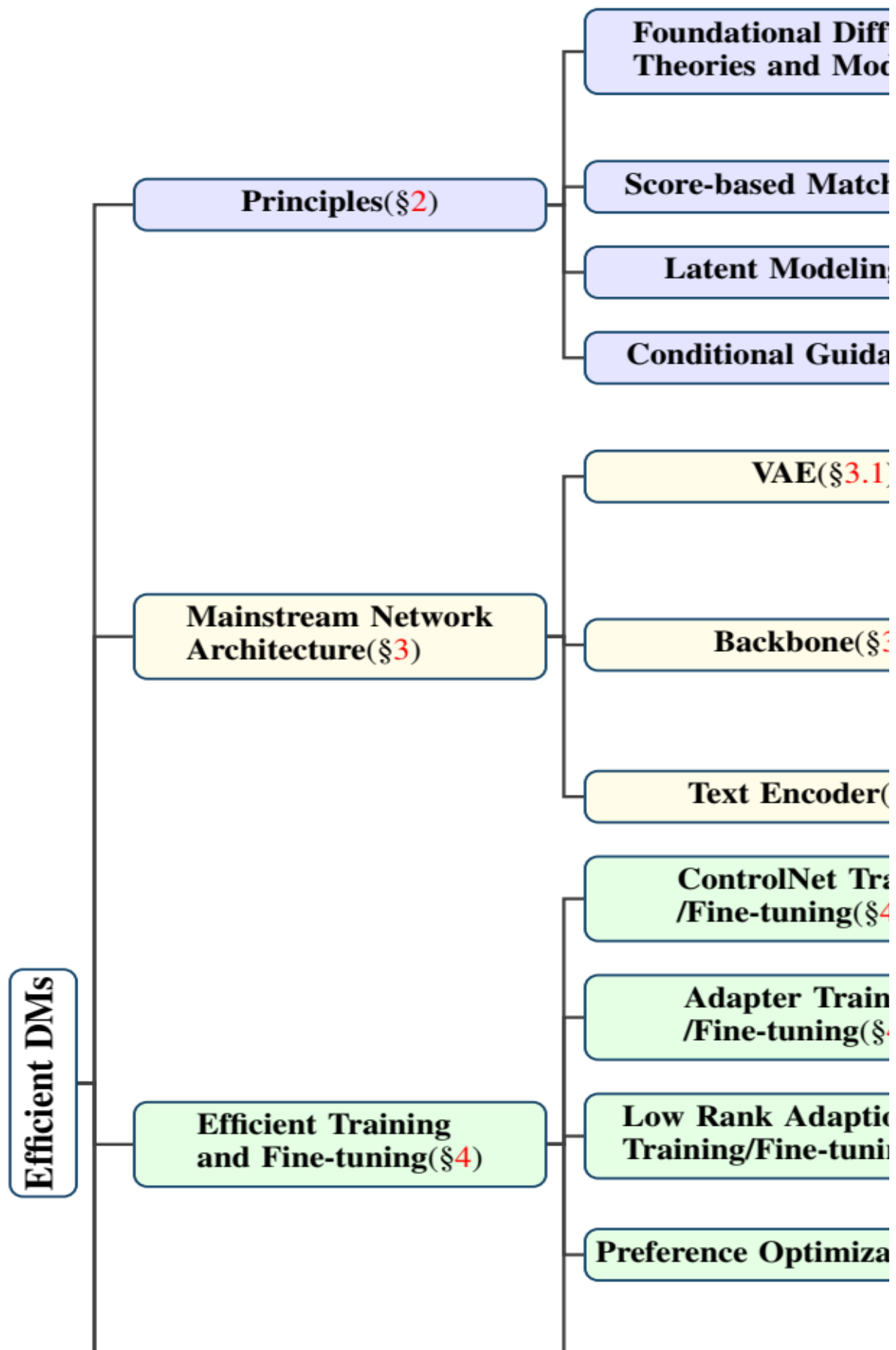


高效扩散模型





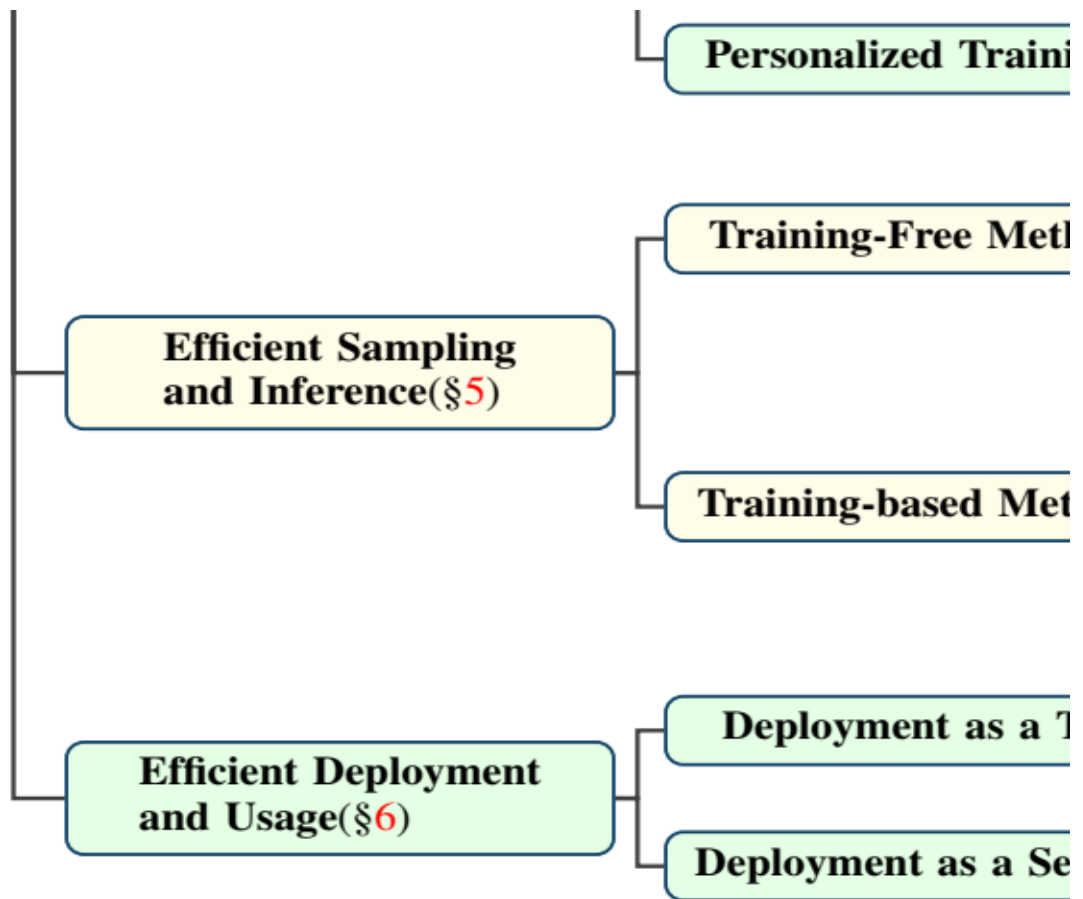


Figure 2: Organization of efficient c

<b>Diffusion Models</b> (§2.1)	Reverse-SDE [51], DPMs [1], VDMs [52], DDPM [2], iDDPM [53], DDIM [3], DDRM [54], PNDM [55], INDM [36], D3PM [56], EDM [57], CDM [58]
<b>Sampling</b> (§2.2)	NCSN [59], LSGM [60], Score-SDE [61], SSM [62], ScoreFlow [39], ScoreAppr. [37]
<b>Latent Diffusion</b> (§2.3)	LDM [33], LSGM [60], LCM [31]
<b>Image-to-Image</b> (§2.4)	GLIDE [32], CfDG [63], SDG [64], ADM [4], LDM [33], DALL-E2 [6]
<b>Video-to-Video</b> (§2.5)	VQVAE [65] VQGAN [66], C-ViViT [67], TATS [68], MAGViT [69], CV-VAE [70], MAGViT-V2 [71]
<b>Image-to-Image</b> (§3.2)	LDM [33], SDXL [8], U-ViT [72], DiT [73], FiT [74], SiT [75], DiM [76], ZigMa [77], Dimba[78], Latte [79], SD3.0 [80], Pixart- $\alpha$ [81], CogvideoX [82], Sora [50], Moive Gen [83]
<b>Text-to-Image</b> (§3.3)	CLIP [84], T5 [85], mCLIP [86], mT5 [87], Lllama [88, 89], ChatGLM3 [90]
<b>Image-to-Image</b> (§4.1.1)	ControlNet [9], Controlnet-XS [91], ControlnetXt[92], Controlnet++[93]
<b>Image-to-Image</b> (§4.1.2)	T2I-Adapter [42], IP-Adapter [94], X-Adapter [95], Sur-Adapter [96], SimDA [97], CTRL-Adapter [98]
<b>Image-to-Image</b> (§4.1.3)	LoRA [99], LoRA-Composer [100], LCM-LoRA [101], Concept-Sliders [102]
<b>Image-to-Image</b> (§4.2.1)	DDPO [103], HPS [104], DreamTuner [105], ImagenReward [106], Diffusion-DPO [107], RAFT [108], AHF [109]
<b>Image-to-Image</b> (§4.2.2)	Textual Inversion [110], DreamBooth [101]

<b>ing (§4.2.2)</b>	Textual Inversion [110], DreamBOoth [10], BLIP-Diffusion [111], ELITE [112], Mix-of-show [113], MoA [114], OMG [115]
<b>hods (§5.1)</b>	SDE Solver [116–120, 59, 57], ODE Solver [121–127], Trajectory Optimization [128–130]
<b>thods (§5.2)</b>	Distribution Based Distillation [131–133, 30, 31, 134], Trajectory Based Distillation [135–137, 28, 138, 139], Adversarial Based Distillation [140, 141], GAN Objective [142–144], Truncated Diffusion [145, 146]
<b>Tool (§6.1)</b>	ComfyUI, Automatic1111's SD WebUI
<b>ervice (§6.2)</b>	SnapFusion [147], MobileDiffusion [148], DistriFusion [149], PipeFusion [150], AsyncDiff [151]

diffusion models advancements.